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

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

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

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

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

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

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1.6 python-argparse 2.7.12-r1.23.38.5
1.6.1 Available under license:
A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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

 PROTOSTORAGE( void rt_warn, (char *mesg,...));
 PROTOSTORAGE( void rt_error, (char *mesg,...));
 PROTOSTORAGE( 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;
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)
      { /* Sign is different. */
       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)
      { /* Length is different. */
       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
    {
        /* 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
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"

```c
#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);
}

/* Calculate sub results ... */
broadcast_new (&d1);
broadcast_new (&d2);
broadcast_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
broadcast_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
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;
b_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)
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. */
broadcast (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;
bci_init_num (&int_part);
bci_divide (num, _one_, &int_part, 0);
bci_init_num (&frac_part);
bci_init_num (&cur_dig);
bci_init_num (&base);
bci_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;
bci_int2num (&base, o_base);
bci_init_num (&max_o_digit);
bci_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;
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Version 2.1, February 1999

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1.11 **python-networkx 1.11-r0.23.38.5**

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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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.

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

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(For 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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If distribution of object code is made by offering access to copy
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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.

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I would like to thank the following people (in alphabetical order):

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
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other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
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the interface presents a list of user commands or options, such as a
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*
*
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*
* A "Standard Interface" means an interface that either is an official
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* with subsection 6b.
*
* d) Convey the object code by offering access from a designated
* place (gratis or for a charge), and offer equivalent access to the
* Corresponding Source in the same way through the same place at no
* further charge. You need not require recipients to copy the
* Corresponding Source along with the object code. If the place to
* copy the object code is a network server, the Corresponding Source
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*
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1.28 gettext-runtime 0.19.8.1-r0.23.38.5

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@page
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1.34 busybox 1.23.1

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  unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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

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

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<th>Year</th>
<th>Owner</th>
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/*/ Random objects */

/" Random objects */

The code in this module was based on a download from:
It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped in python calling/return code.

* genrand_int32() and the helper functions, init_genrand() and init_by_array(), were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

* unused functions from the original were deleted.
new, original C python code was added to implement the Random() interface.

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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****************************************************************** */
#endif
subprocess - Subprocesses with accessible I/O streams
#
# For more information about this module, see PEP 324.
#
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# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
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#
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# http://www.pythonware.com
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#
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# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
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Mersenne Twister

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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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

Asynchronous socket services
----------------------------

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---------

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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
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- Arguments more compliant with python standard

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

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---------
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Select kqueue
-------------

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

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).

*/

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=head1 NAME

IO::Tty - Low-level allocate a pseudo-Tty, import constants.

=head1 VERSION

1.12

=head1 SYNOPSIS

use IO::Tty qw(TIOCNOTTY);
...
# use only to import constants, see IO::Pty to create ptys.

=head1 DESCRIPTION

C<IO::Tty> is used internally by C<IO::Pty> to create a pseudo-Tty. You wouldn't want to use it directly except to import constants, use C<IO::Pty>. For a list of importable constants, see L<IO::Tty::Constant>.

Windows is now supported, but ONLY under the Cygwin environment, see L<http://sources.redhat.com/cygwin/>.

Please note that pty creation is very system-dependend. From my experience, any modern POSIX system should be fine. Find below a list of systems that C<IO::Tty> should work on. A more detailed table (which is slowly getting out-of-date) is available from the project pages document manager at SourceForge L<http://sourceforge.net/projects/expectperl/>.

If you have problems on your system and your system is listed in the "verified" list, you probably have some non-standard setup, e.g. you compiled your Linux-kernel yourself and disabled ptys (bummer!). Please ask your friendly sysadmin for help.
If your system is not listed, unpack the latest version of C<IO::Tty>, do a C<'perl Makefile.PL; make; make test; uname -a'> and send me (F<RGiersig@cpan.org>) the results and I'll see what I can deduce from that. There are chances that it will work right out-of-the-box...

If it's working on your system, please send me a short note with details (version number, distribution, etc. 'uname -a' and 'perl -V' is a good start; also, the output from "perl Makefile.PL" contains a lot of interesting info, so please include that as well) so I can get an overview. Thanks!

=head1 VERIFIED SYSTEMS, KNOWN ISSUES

This is a list of systems that C<IO::Tty> seems to work on ('make test' passes) with comments about "features":

=over 4

=item * AIX 4.3

Returns EIO instead of EOF when the slave is closed. Benign.

=item * AIX 5.x

=item * FreeBSD 4.4

EOF on the slave tty is not reported back to the master.

=item * OpenBSD 2.8

The ioctl TIOCSCTTY sometimes fails. This is also known in Tcl/Expect, see http://expect.nist.gov/FAQ.html

EOF on the slave tty is not reported back to the master.

=item * Darwin 7.9.0

=item * HPUX 10.20 & 11.00

EOF on the slave tty is not reported back to the master.

=item * IRIX 6.5

=item * Linux 2.2.x & 2.4.x

Returns EIO instead of EOF when the slave is closed. Benign.
EOF on the slave tty is not reported back to the master.

Has the "feature" of returning EOF just once?!

EOF on the slave tty is not reported back to the master.

When you send (print) a too long line (>160 chars) to a non-raw pty, the call just hangs forever and even alarm() cannot get you out. Don't complain to me...

EOF on the slave tty is not reported back to the master.

The following systems have not been verified yet for this version, but a previous version worked on them:

over 4

SCO Unix

NetBSD

probably the same as the other *BSDs...

If you have additions to these lists, please mail them to E<lt>F<RGiersig@cpan.org>E<gt>.

SEE ALSO

L<IO::Pty>, L<IO::Tty::Constant>

MAILING LISTS

As this module is mainly used by Expect, support for it is available
via the two Expect mailing lists, expectperl-announce and
expectperl-discuss, at

http://lists.sourceforge.net/lists/listinfo/expectperl-announce

and

http://lists.sourceforge.net/lists/listinfo/expectperl-discuss

=head1 AUTHORS

Originally by Graham Barr <gbarr@pobox.com>, based on the
Ptty module by Nick Ing-Simmons <nik@tiuk.ti.com>.

Now maintained and heavily rewritten by Roland Giersig
<RGiersig@cpan.org>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu
Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
<Todd.Miller@courtesan.com>. I also got a lot of inspiration from
the pty code in Xemacs.

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=head1 NAME

IO::Pty - Pseudo TTY object class

=head1 VERSION

1.12

=head1 SYNOPSIS

use IO::Pty;

$pty = new IO::Pty;

$slave = $pty->slave;

foreach $val (1..10) {
  print $pty "$val
;$_ = <$slave>;
  print "$$_;
}

close($slave);

=head1 DESCRIPTION

C<IO::Pty> provides an interface to allow the creation of a pseudo tty.

C<IO::Pty> inherits from C<IO::Handle> and so provide all the methods defined by the C<IO::Handle> package.
Please note that pty creation is very system-dependent. If you have problems, see L<IO::Tty> for help.

=head1 CONSTRUCTOR

=over 3

=item new

The C<new> constructor takes no arguments and returns a new file object which is the master side of the pseudo tty.

=back

=head1 METHODS

=over 4

=item ttynamé()

Returns the name of the slave pseudo tty. On UNIX machines this will be the pathname of the device. Use this name for informational purpose only, to get a slave filehandle, use slave().

=item slave()

The C<slave> method will return the slave filehandle of the given master pty, opening it anew if necessary. If IO::Stty is installed, you can then call C<$slave-E<gt>stty()> to modify the terminal settings.

=item close_slave()

The slave filehandle will be closed and destroyed. This is necessary in the parent after forking to get rid of the open filehandle, otherwise the parent will not notice if the child exits. Subsequent calls of C<slave()> will return a newly opened slave filehandle.

=item make_slave_controlling_terminal()

This will set the slave filehandle as the controlling terminal of the current process, which will become a session leader, so this should only be called by a child process after a fork(), e.g. in the callback to C<sync_exec()> (see L<Proc::SyncExec>). See the C<try> script (also C<test.pl>) for an example how to correctly spawn a subprocess.

=item set_raw()
Will set the pty to raw. Note that this is a one-way operation, you need IO::Stty to set the terminal settings to anything else.

On some systems, the master pty is not a tty. This method checks for that and returns success anyway on such systems. Note that this method must be called on the slave, and probably should be called on the master, just to be sure, i.e.

```perl
$pty->slave->set_raw();
$pty->set_raw();
```

=item clone_winsize_from(*FH)

Gets the terminal size from filehandle FH (which must be a terminal) and transfers it to the pty. Returns true on success and undef on failure. Note that this must be called upon the I<slave>, i.e.

```perl
$pty->slave->clone_winsize_from(*STDIN);
```

On some systems, the master pty also isatty. I actually have no idea if setting terminal sizes there is passed through to the slave, so if this method is called for a master that is not a tty, it silently returns OK.

See the C<try> script for example code how to propagate SIGWINCH.

=item get_winsize()

Returns the terminal size, in a 4-element list.

```perl
($row, $col, $xpixel, $ypixel) = $tty->get_winsize();
```

=item set_winsize($row, $col, $xpixel, $ypixel)

Sets the terminal size. If not specified, C<$xpixel> and C<$ypixel> are set to 0. As with C<clone_winsize_from>, this must be called upon the I<slave>.

=back

=head1 SEE ALSO

L<IO::Tty>, L<IO::Tty::Constant>, L<IO::Handle>, L<Expect>, L<Proc::SyncExec>

=head1 MAILING LISTS
As this module is mainly used by Expect, support for it is available via the two Expect mailing lists, expectperl-announce and expectperl-discuss, at

http://lists.sourceforge.net/lists/listinfo/expectperl-announce

and

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Originally by Graham Barr E<lt>gbarr@pobox.com>E<gt>, based on the Ptty module by Nick Ing-Simmons E<lt>nik@tiuk.ti.com>E<gt>. Now maintained and heavily rewritten by Roland Giersig E<lt>RGiersig@cpan.org>E<gt>. Contains copyrighted stuff from openssh v3.0p1, authored by Tatu Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller <Todd.Miller@courtesan.com>.

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1.41 zip 3

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   Format stream_lf

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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.

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

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

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

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

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

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

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

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

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

```
Copyright (C) @var{year}  @var{name of author}
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```

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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

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

That's all there is to it!
BEGIN{
FS="";
print /* ==> Do not modify this file!! " 
-.*- buffer-read-only: t -*- vi " 
":set ro:";
print " It is created automatically by copying.awk."
print " Modify copying.awk instead. <==" */
print ""
print "#include "defs.h"
print "#include "command.h"
print "#include "gdbcmd.h"
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty);"
print ""
print "}"
}
NR == 1.*/[ ]*15\. Disclaimer of Warranty\[ ]*$/{
if ($0 ~ /)/
{
printf " printf_filtered ("\n\n\n"
}
else if ($0 !~ /)/[ ]*15\. Disclaimer of Warranty\[ ]*$/)
{
printf " printf_filtered (""
for (i = 1; i < NF; i++)
printf "\%s\\n", $i;
printf "\%s\\n\n", $NF;
}
Boost Software License - Version 1.0 - August 17th, 2003

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FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
#! /usr/bin/env python
# Copyright (C) 2011-2015 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
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# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

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def get_update_list():
    """Return the list of files to update.
    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    ...
p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
        stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)
for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorigthm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
        print "\033[0m"  
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.  
# The actual value of these constants is not significant to the understanding  
# of the script.  
#  
############################################################################

# Files which should not be modified, either because they are  
# generated, non-FSF, or otherwise special (e.g. license text,  
# or test cases which must be sensitive to line numbering).  
#  
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glbc_thread_db.h',  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib/import'  
)

# Files which should not be modified, either because they are  
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",
)
if __name__ == '__main__':
    main()
1.45 netcat-openbsd 1.105

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1.46 cyphar-filepath-securejoin 0.2.2

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1.47 lzo 2.08

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1.51 pcre 8.35
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1.52 keyutils 1.5.9

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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

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

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

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

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1.60 libusb 1.0.20-r0.23.38.5

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

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

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

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

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

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

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

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

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

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

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

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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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e) Verify that the user has already received a copy of these
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1.64 flex 2.5.39

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1.65 dosfs-tools 2.11

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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1.68 python-pycrypto 2.6.1-r0.15.38.5

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1.70 time 1.7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematical 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 created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/zstd_internal.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/pool.h
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v07.h

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- Source repository : https://github.com/Cyan4973/FiniteStateEntropy  

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/fse.h
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****************************************************************** */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/fse_compress.c
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  1.3.3/zstd/lib/compress/zstd_ldm.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1.3.3-tar-gz/zstd-
  1.3.3/zstd/lib/compress/zstd_ldm.c
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1.3.3-tar-gz/zstd-1.3.3/src/zstd.egg-info/PKG-
INFO
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1.3.3-tar-gz/zstd-1.3.3/PKG-INFO

1.78 iw 4.7

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1.81 efibootmgr 0.12

1.82 open-ldap 2.4.57
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1.83 gdbm 1.12-r0.23.38.5

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007
It is part of the main e2fsprogs distribution, which can be found at:

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

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

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

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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*/

/* static char *sccsid = "@(#)leftbutton.cursor	3.81/24/86"; */
#define leftbutton_width 16
#define leftbutton_height 16
static short leftbutton_bits[] = {
  0xc001, 0xbffe, 0xbffe, 0xa222,
  0xaa2, 0xaa2, 0xaa2, 0xaa2,
  0xa222, 0xbffe, 0xbffe, 0xbffe,
  0xbffe, 0xbffe, 0xbffe, 0xc001};

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#!/ static char *sccsid = "@(#)middlebutton.cursor3.81/24/86"; */
#define middlebutton_width 16
#define middlebutton_height 16
static short middlebutton_bits[] = {
  0xc001, 0xbffe, 0xbffe, 0xa222,
  0xaa2a, 0xaa2a, 0xaa2a, 0xaa2a,
  0xa222, 0xbffe, 0xbffe, 0xbffe,
  0xbffe, 0xbffe, 0xbffe, 0xc001};

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#
#/*
# * MODIFICATION HISTORY
# *
# * 000 -- M. Gancarz, DEC Ultrix Engineering Group
# */

# SCCSID="@(#)default.uwmrc 3.8 1/24/86"
#
# default.uwmrc - default bindings for the "uwm" window manager
# This file is a duplicate of uwm's built-in bindings.
# Any changes to this file should also be added to the file "Bindings.c"
# in the uwm sources.
# #
#
# # Global variables
# resetbindings;resetvariables;resetmenus
# autoselect
delta=25
# freeze
grid
hiconpad=5
hmenupad=6
iconfont=oldengssx
menufont=timrom12b
resizefont=9x15
viconpad=5
vmenupad=3
volume=7

# # Mouse button/key maps
# # FUNCTIONKEYS=CONTEXT=BUTTON=MENU(if any)

#
# Menu specifications
#

menu = "WINDOW OPS" {
"(De)Iconify":f.iconify
Move:f.move
Resize:f.resize
Lower:f.lower
Raise:f.raise
}

menu = "EXTENDED WINDOW OPS" {
Create Window:"!xterm &"
Iconify at New Position:f.newiconify
Focus Keyboard on Window:f.focus
Freeze All Windows:f.pause
Unfreeze All Windows:f.continue
Circulate Windows Up:f.circleup
Circulate Windows Down:f.circledown
}

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*/

/* static char *sccsid = "@(#{)menu_mask.cursor3.81/24/86"; */
#define menu_mask_width 16
#define menu_mask_height 16
static short menu_mask_bits[] = {
  0x0000, 0x0000, 0x00e0, 0x00f0,
  0xfff8, 0xfffc, 0xfffe, 0xffff,
  0xfffe, 0xfffc, 0xfff8, 0x00f0,
  0x00e0, 0x0000, 0x0000, 0x0000};

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%

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#ifndef lint
static char *sccsid = "@(#)lex.13.81/24/86";
#endif

#include "y.tab.h"
#include "uwm.h"

char *dequote();
char *stash();

%}

Found in path(s):
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*
#ifndef lint
static char *sccsid = "@(#)lex.13.81/24/86";
#endif

#include "y.tab.h"
#include "uwm.h"

char *dequote();
char *stash();

%}

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/*
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  000 -- M. Gancarz, DEC Ulrix Engineering Group

  SCCSID="@(#)mono.uwmrc 3.9 1/24/86"

  mono.uwmrc - Startup file for the "uwm" window manager on a system
  with at least 4 planes AND a monochrome monitor

  This file is normally kept in your home directory and is read by an
  invocation of "uwm" in your .login or .profile.

  resetvariables;resetbindings;resetmenus
delta=15
freeze
grid
hiconpad=5
hmenupad=6
iconfont=oldeng
menufont=timrom12b
resizefont=helv12b
reverse
viconpad=5
vmenupad=3
volume=7
zap

# Mouse button/key maps
#  FUNCTIONKEYSCONTEXTBUTTONMENU(if any)
f.menu = meta::left down: "WINDOW OPS"
f.beep = meta::middle down
f.menu = meta::right down: "CREATE WINDOW"

#
# The following bindings are for "hands-free" operation using the LOCK key.
#
# f.menu = lock::left down: "WINDOW OPS"
f.beep = lock::middle down
f.menu = lock::right down: "CREATE WINDOW"

#
# MENU DEFINITIONS
#

menu = "CREATE WINDOW" {
    Black: "xterm -r -bw 3 &"
    White: "xterm -bw 3 &"
    "Gray #1": "xterm -bw 3 -bg LimeGreen -fg Black &"
    "Gray #2": "xterm -bw 3 -bg MediumSeaGreen -fg White &"
    "Gray #3": "xterm -bw 3 -bd White -bg DarkSlateGray -fg White &"
}

menu = "WINDOW OPS" {
    "(De)Iconify": f.iconify
    Move: f.move
    Resize: f.resize
    Lower: f.lower
    Raise: f.raise
    "Others -->": f.menu: "EXTENDED WINDOW OPS"
}

menu = "EXTENDED WINDOW OPS" {
    Iconify @ New Position: f.newiconify
    Focus Keyboard on Window: f.focus
    Freeze All Windows: f.pause
    Circulate Windows Up: f.circleup
    Circulate Windows Down: f.circledown
    Refresh All Windows: f.refresh
}

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/* static char *sccsid = "@(#)menu.cursor3.81/24/86"; */
#define menu_width 16
#define menu_height 16
static short menu_bits[] = {
  0x0000, 0x0000, 0x0000, 0x0020,
  0x0030, 0x3ff8, 0x3ffc, 0x003e,
  0x3ffc, 0x3ff8, 0x0030, 0x0020,
  0x0000, 0x0000, 0x0000, 0x0000};

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SCCSID="@(#)menuless.uwmrc3.91/24/86"

menuless.uwmrc - A startup file for the 'uwm' window manager that runs
without menus. This is essentially similar to the
X window manager 'xwm'. Note that since you are not
using menus, you cannot create new windows from the window
manager. You can please some of the people some of
the time...

# Global variables
resetvariables;resetbindings;resetmenus
reverse
delta=15
freeze
normali
nonormalw
iconfont=micr25fx
resizefont=helv12b
grid
zap
hiconpad=5
viconpad=5
volume=7
# Mouse button/key maps

# FUNCTIONKEYSCONTENTMOUSE BUTTON ACTIONS
f.newiconify=meta:window:left delta
f.lower=meta:window|icon:left up
f.iconify=meta:icon:middle up
f.resize=meta:window:middle delta
f.move=meta:window|icon:right delta
f.raise=meta:window|icon:right up
f.circledown=meta:root :left down
f.circleup=meta:root :right down

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* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/reason.h
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/cursor.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/font.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/draw.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/packet.h
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/mem.h
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/bitpix.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/util.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/dl.c
* /opt/cola/permits/1259869453_1649369962.7/0/x-v10r3-tar-gz/X.V10R3/libvs100/move.c
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Xlib - C Language X Interface
Protocol Version 10

Jim Gettys
Digital Equipment Corporation
MIT Project Athena

Ron Newman
Massachusetts Institute of Technology
MIT Project Athena

Tony Della Fera
Digital Equipment Corporation
MIT Project Athena

X is a network transparent windowing system developed at MIT which runs under 4.3BSD UNIX and Ultrix-32 Version 1.2.

X display servers run on computers with either monochrome or color bitmap terminals.
The server distributes user input to, and accepts output requests from various client programs located either on the same machine or elsewhere in
your network.
Xlib is a C subroutine library that application programs (‘clients’) use to interface with the window system via a stream connection.
While a client normally runs on the same machine as the X server it is talking to, this need not be the case.

This document describes the low level C language interface to the X window system protocol. It is expected and intended that much higher level libraries will be developed for more convenient programming of the window system.

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/* static char *sccsid = "@(#)rightbutton.cursor	3.8	1/24/86"; */
#define rightbutton_width 16
#define rightbutton_height 16
static short rightbutton_bits[] = {
  0xc001, 0xbffe, 0xbffe, 0xa222,
  0xa2aa, 0xa2aa, 0xa2aa, 0xa2aa,
  0xa222, 0xbffe, 0xbffe, 0xbffe,
  0xbffe, 0xbffe, 0xbffe, 0xc001
};

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1.95 minicom 2.7

1.95.1 Available under license :

This package was put together by John Goerzen <jgoerzen@complete.org>. The only changes made were compiling with -O2 and the addition of the brief "QuickStart" document. Below is the copyright information from the modemu distribution on sunsite.unc.edu/pub/Linux/apps/comm/modemu-0.0.1.tar.gz.

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Modemu Version 0.0.1

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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 3a0982da308228d796df35f98d787c5c0f2bb5bb6.

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.

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6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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Clock driver for JJY receivers

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Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

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Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock drivers

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp

Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support

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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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Frank Kardel<a href="mailto:kardel%20%28at%20ntp%20%28dot%20org"">kardel (at) ntp (dot) org</a>  PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>

Johannes Maximilian Kuehn <kuehn@ntp.org>  Rewrote <tt>ntpq</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>/</li>

William L. Jones <jones@hermes.chpc.utexas.edu>  RS/6000 AIX modifications, HPUX modifications</li>

Dave Katz <dkatz@cisco.com>  RS/6000 AIX port</li>

Craig Leres <kardel (at) ntp (dot) org>  4.4BSD port, ppsclock, Magnavox GPS clock drivers</li>

Johannes Maximilian Kuehn <kuehn@ntp.org>  Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>/</li>

William L. Jones <jones@hermes.chpc.utexas.edu>  RS/6000 AIX modifications, HPUX modifications</li>

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George Lindholm <lindholm@ucs.ubc.ca>  SunOS 5.1 port</li>

Louis A. Mamakos <louie@ni.umd.edu>  MD5-based authentication</li>

Lars H. Mathiesen <thorinn@diku.dk>  adaptation of foundation code for Version 3 as specified in RFC-1305</li>

Danny Mayer <mayer@ntp.org>  Network I/O, Windows Port, Code Maintenance</li>

David L. Mills <mills@udel.edu>  Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>

Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de>  VMS port</li>

Jeffrey Mogul <mogul@pa.dec.com>  ntpttrace utility</li>

Tom Moore <tmoore@fievel.daytonoh.ncr.com>  i386 svr4 ports</li>

Kamal A Mostafa <kamal@whence.com>  SCO OpenServer port</li>

Derek Mulcahy <derek@toybox.demon.co.uk>  and <a href="mailto:%2020d@hd.org">Damon Hart-Davis</a>  ARCROn MSF clock driver</li>

Rob Neal <neal@ntp.org>  Bancomm refclock and config/parse code maintenance</li>

Jack Sasportas <jack@innovativeinternet.com>  Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>

Ray Schnitzler <schnitz@unipress.com>  Unixware1 port</li>
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1.117 libcap 2.25

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```

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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming.
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated “know” assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.
David Edelson contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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[c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

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

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
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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
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use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally 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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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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1.146 efibootmgr 0.12-r0.41.38.5

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1.148 openssl 0.9.8l

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

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
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1.151 qemu 1.5.3

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is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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this, you must alter all the notices that refer to this License, so
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) 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.

b) 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.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
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1.165 urfave-cli 1.22.1

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

[Misc C library code]

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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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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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*/

---------------------------------------------------------------------------
[edoc, syntax_tools]

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---------------------------------------------------------------------------
[leex]

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

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

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1.170 python-six 1.10.0-r0.25.38.5

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1.171 pciutils 3.5.1-r0.41.38.5

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So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.*.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.174 tftp-hpa 5.2
1.174.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

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

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

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

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

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

build

configure
make %{?_smp_mflags}

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

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

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

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

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

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

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

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

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

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

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

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

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

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

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

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

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

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

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ".l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
    - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

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

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003),
    - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

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

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

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

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 2 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

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

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

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

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

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

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

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

%build

%install
rm -rf %{RPM_BUILD_ROOT}
mkdir -p %{RPM_BUILD_ROOT}/%{_bindir}
mkdir -p %{RPM_BUILD_ROOT}/%{_mandir}/man{1,8}
mkdir -p %{RPM_BUILD_ROOT}/%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

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

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

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

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

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

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

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

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

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

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

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

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

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16
* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ".-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

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

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

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

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

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

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

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

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

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

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

1.175 binutils 2.25.51
1.175.1 Available under license :

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

a) 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.

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Appendix: How to Apply These Terms to Your New Libraries

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software only, so we use the Lesser General Public License.

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

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

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

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

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

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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distribute such modifications or work under the terms of Section 1
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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.

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.178 alpine-baselayout 3.2.0-r8

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1.180 lua-cjson 2.1.0
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1.181 curl 7.30.0

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1.182 yajl 2.1.0-r0.23.38.5
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1.183 simplejson 2.2.1
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fields:
site: string
author: root

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1.197 upstart 1.13.2

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1.198 pyyaml 3.12

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

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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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  * Added atomicops for AIX (POWER)

1.202 sqlite 3.14.1-r0.23.38.5

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1.208 avahi 0.6.32

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

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- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of “Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It’s really simple to use. Use this link to find more info:
The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.
Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
   Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:et:ft=help:norl:
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   Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
1.217 python-setuptools 22.0.5-r0.23.38.5

1.217.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/six.py

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Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/markers.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/version.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/requirements.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/utils.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/_structures.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/pkg_resources/_vendor/packaging/__init__.py

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Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22.0.5/setup.py
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Metadata-Version: 1.1
Name: setuptools
Version: 22.0.5
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ===============================
Installing and Using Setuptools

`Change History <https://pythonhosted.org/setuptools/history.html>`_

-------------------------
Installation Instructions
-------------------------

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py` and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x
<https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_

The link provided to `ez_setup.py` is a bookmark to bootstrap script for the
latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
================================

For best results, uninstall previous versions FIRST (see `Uninstalling`_).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up Powershell and paste this command::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the ``py`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py`_ and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)
---------------------

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.

Unix (wget)
-----------

Open Source Used in IOS XR Software 7.3.3 2478
Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>). If you happen to encounter them, install Setuptools as follows:

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

================================

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `--O` with `--o`. For example:

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

================================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>` and run setup.py with any supported distutils and Setuptools options.

For example::
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools`
is available from the `Bitbucket repo`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an `exe` or `msi` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory
(and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts
and associated executables installed to the Python scripts directory.

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

Using Setuptools and EasyInstall
--------------------------------
Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

-------

Credits
-------

* The original design for the `".egg"` format and the `"pkg_resources"` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of `"pkg_resources"`, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of `"easy_install"`, and supplied the doctests for the command-line `".exe"` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open
Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

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

Code of Conduct
---------------

Everyone interacting in the setuptools project’s codebases, issue trackers, chat rooms, and mailing lists is expected to follow the "PyPA Code of Conduct".


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22.0.5.zip/setuptools-22.0.5/setuptools.egg-info/PKG-INFO
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22.0.5.zip/setuptools-22.0.5/PKG-INFO
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================================================================================
Building and Distributing Packages with Setuptools
================================================================================

``Setuptools`` is a collection of enhancements to the Python ``distutils``
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using `setuptools` look to the user like
ordinary Python packages based on the `distutils`. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module` (a 12K .py file), your package will
automatically download and install `setuptools` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
  the `EasyInstall tool <easy_install.html>`_,
  which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
  automatically scans web pages linked from PyPI to find download links. (It's
  the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ -
  a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
  individually in setup.py

* Automatically include all relevant files in your source distributions,
  without needing to create a `MANIFEST.in` file, and without having to force
  regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe
  files for any number of "main" functions in your project. (Note: this is not
  a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and
  still work even when the end-user doesn't have Pyrex installed (as long as
  you include the Pyrex-generated C in your source distribution)
* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the 'Python SVN sandbox'_, and in-development versions of the `0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

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

Developer's Guide
-----------------

Installing ``setuptools``

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python’s `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run::
ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use
==========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

```bash
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ["say_hello.py"],
    # Project uses reStructuredText, so ensure that the docutils get installed or upgraded on the target machine
    install_requires = ["docutils>=0.3"],
)
```

```python
package_data = {
```

 setups.py setup tools==dev

 This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

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     # Project uses reStructuredText, so ensure that the docutils get installed or upgraded on the target machine
     install_requires = ["docutils>=0.3"],
 )
```

```python
package_data = {
```
In the sections that follow, we'll explain what most of these `setup()`
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as `2.4` or `0.5`. Each series of digits is treated
numerically, so releases `2.1` and `2.1.0` are different ways to spell the
same release number, denoting the first subrelease of release 2. But `2.10`
is the *tenth* subrelease of release 2, and so is a different and newer release
from `2.1` or `2.1.0`. Leading zeros within a series of digits are also
ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release
tag. Pre-release tags make a version be considered *older* than the version
they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`,
which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make
a version be considered *newer* than the version they are appended to. So,
revisions like `2.4-1` and `2.4pl3` are newer than `2.4`, but are *older*
than `2.4.1` (which has a higher release number).
A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include "alpha", "beta", "a", "c", "dev", and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, "2.4c1" and "2.4.e1" and "2.4-e1" all represent release candidate 1 of version "2.4", and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version "2.4rc1", "2.4pre1" and "2.4preview1" are all the exact same version as "2.4c1", and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("-"). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version "2.4-r1263" might denote Subversion revision 1263 of a post-release patch of version "2.4". Or you might use "2.4-20051127" to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, "0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that "dev" is a pre-release tag, so this version is a *lower* version number than "0.6a9", which would be the actual ninth alpha of release 0.6. But the "-r41475" is a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version "1.9adev" is the "adev" prerelease of "1.9", not a development pre-release of "1.9a". Use "a.dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a.dev", "1.9a0dev", and even "1.9.a.dev" are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the "pkg_resources.parse_version()" function to compare different version numbers::

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
```
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

``include_package_data``
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`_.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`_.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` *and* `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long
as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``

A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

``tests_require``

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will not be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.
The module and class you specify here may be contained in another package, as long as you use the ```tests_require``` option to ensure that the package containing the loader class is available when the ```test``` command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource ```foo.png``` in package ```bar.baz```, you would include the string ```bar/baz/foo.png``` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ```find_packages()```

For simple projects, it's usually easy enough to manually add packages to the ```packages``` argument of ```setup()```. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ```setuptools.find_packages()``` is for.

```find_packages()``` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ```src``` or ```lib``` directory as the root of their source tree, and those projects would of course use ```''src''``` or ```''lib''``` as the first argument to ```find_packages()```. (And such projects also need something like ```'package_dir = {'': 'src'}``` in their
Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```python
find_packages(exclude=['*tests', '*tests.*', 'tests.*', 'tests'])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

### Automatic Script Creation

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `--m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this:

```python
['setup()] arguments, but that's just a normal distutils thing.)

```

---

---
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following::

setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``
setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `"<", ">", "<=", ">=", "==", "!=", or "!="`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `\"\`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2, <3"` becomes `"<3"`). `"!="` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"<2,>=2"` or `"==2,!=2"`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
Baz$Spam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
  ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST] >=0.5a4

setuptools ==0.5a7

The simplest way to include requirement specifiers is to use the
``install_requires`` argument to ``setup()``. It takes a string or list of
strings containing requirement specifiers. If you include more than one
requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
   install``”, or ``setup.py develop``”, all of the dependencies not already
   installed will be located (via PyPI), downloaded, built (if necessary),
   and installed.

2. Any scripts in your project will be installed with wrappers that verify
   the availability of the specified dependencies at runtime, and ensure that
   the correct versions are added to ``sys.path`` (e.g. if multiple versions
   have been installed).

3. Python Egg distributions will include a metadata file listing the
   dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
*not* need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See "Development Mode" below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI
---------------------------------

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).
You just need to add some URLs to the `dependency_links` argument to `setup()`. The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:
setup(
    ...  
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
)
)

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

    setup(
        name="Project-A",
        ...  
        extras_require = {
            'PDF':  ["ReportLab>=1.2", "RXP"],
            'reST': ["docutils>=0.3"],
        }
    )

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

    setup(
        name="Project-A",
        ...  
        entry_points = {
            'console_scripts': [
                'rst2pdf = Project-A.rst2pdf:main',
            ]
        }
    )
Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `"extras_require"` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
```

so that Package B doesn't have to remove the `"[PDF]"` from its requirement specifier.
Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ':': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
setup.py
src/
```
mypkg/
    __init__.py
    mypkg.txt
    data/
        somefile.dat
        otherdata.dat

The setuptools setup file might look like this::

    from setuptools import setup, find_packages
    setup(
        ...
        packages = find_packages('src'),  # include all packages under src
        package_dir = {'': 'src'},  # tell distutils packages are under src

        package_data = {
            # If any package contains *.txt files, include them:
            ': ['*.txt'],
            # And include any *.dat files found in the 'data' subdirectory
            # of the 'mypkg' package, also:
            'mypkg': ['data/*.dat'],
        }
    )

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in setuptools, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

    __ http://docs.python.org/dist/node11.html

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::
from setuptools import setup, find_packages
setup(
...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src

    include_package_data = True,  # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
    )

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be excluded from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

``include_package_data``
Accept all data files and directories matched by `MANIFEST.in`.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime
--------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't
compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

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

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)
Automatic Resource Extraction
-------------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract all C extensions and `eager_resources` at the same time, whenever any C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

`setuptools` supports creating libraries that "plug in" to extensible
applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)

setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

setup(
    # ...
    entry_points = """
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An
entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
===================

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).
To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
=========================================

Using `setuptools`... Without bundling it!
-------------------------------------------
Your users might not have "setuptools" installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```python
import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `ez_setup()` function. See the function's docstring for details.)

What Your Users Should Know
---------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and `easy_install`.

Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those
instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't "easy_install"!
Setuptools currently supports "bdist_rpm", "bdist_wininst", and "bdist_dumb" formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils "install" command, it should be able to work with "setuptools". Some examples of "bdist" formats that this should work with include the "bdist_nsi" and "bdist_msi" formats for Windows.

However, packaging tools that build binary distributions by running "setup.py install" on the command line or as a subprocess will require modification to work with setuptools. They should use the "--single-version-externally-managed" option to the "install" command, combined with the standard "--root" or "--record" options. See the `install command` documentation below for more details. The "bdist_deb" command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the "zip_safe" flag
----------------------------

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, "setuptools" can install your project as a zipfile or a directory, and its default choice is determined by the project's "zip_safe" flag.

You can pass a True or False value for the "zip_safe" argument to the "setup()" function, or you can omit it. If you omit it, the "bdist_egg" command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the "bdist_egg" authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no "__file__" or "__path__" introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok` or `setup.py easy_install --always-unzip` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

### Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
```

---

Open Source Used In IOS XR Software 7.3.3 2510
Because it contains a "zope.interface" package that lives in the "zope" namespace package. Similarly, a project for a standalone "zope.publisher" would also declare the "zope" namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" "zope" package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's "zope.app" package is a namespace package, and in the future PEAK's "peak.util" package will be too.

Note, by the way, that your project's source tree must include the namespace packages' "__init__.py" files (and the "__init__.py" of any parent packages), in a normal Python package layout. These "__init__.py" files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's "__init__.py". Even though it may appear to work during development, or when projects are installed as "_.egg" files, it will not work when the projects are installed using "system" packaging tools -- in such cases the "__init__.py" files will not be installed, let alone executed.

You must include the "declare_namespace()" line in the "__init__.py" of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of "__init__.py" is loaded first. If the first loaded "__init__.py" doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls "declare_namespace()" for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the "pkg_resources" runtime, and also the need for "pkg_resources" to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.
During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r``)

* An 8-character representation of the build date (`--tag-date, -d``), as a postrelease tag

You can add these tags by adding ```egg_info``` and the desired options to the command line ahead of the ```sdist``` or ```bdist``` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)
Finally, if you are creating builds frequently, and either building them in a 
downloadable location or are copying them to a distribution server, you should 
probably also check out the `rotate` command, which lets you automatically 
delete all but the N most-recently-modified distributions matching a glob 
pattern. So, you can use a command line like::

    setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the 
most recent Subversion revision that affected the source tree), and then 
delete any egg files from the distribution directory except for the three 
that were built most recently.

If you have to manage automated builds for multiple packages, each with 
different tagging and rotation policies, you may also want to check out the 
`alias` command, which would let each package define an alias like `daily` that 
would perform the necessary tag, build, and rotate commands. Then, a 
simpler script or cron job could just run `setup.py daily` in each project 
directory. (And, you could also define sitewide or per-user default versions 
of the `daily` alias, so that projects that didn't define their own would 
use the appropriate defaults.)

Generating Source Distributions
--------------------------------

`setuptools` enhances the distutils' default algorithm for source file 
selection with pluggable endpoints for looking up files to include. If you are 
using a revision control system, and your source distributions only need to 
include files that you're tracking in revision control, use a corresponding 
plugin instead of writing a `MANIFEST.in` file. See the section below on 
`Adding Support for Revision Control Systems` for information on plugins.

If you need to include automatically generated files, or files that are kept in 
an unsupported revision control system, you'll need to create a `MANIFEST.in` 
file to specify any files that the default file location algorithm doesn't 
catch. See the distutils documentation for more information on the format of 
the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with 
`MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you 
from these issues and doesn't work the same way in any case. Unlike the 
distutils, setuptools regenerates the source distribution manifest file 
every time you build a source distribution, and it builds it inside the 
project's `.egg-info` directory, out of the way of your main project 
directory. You therefore need not worry about whether it is up-to-date or not.
Indeed, because setuptools’ approach to determining the contents of a source
distribution is so much simpler, its `sdist` command omits nearly all of
the options that the distutils’ more complex `sdist` process requires. For
all practical purposes, you’ll probably use only the `--formats` option, if
you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the `register` command. There
are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``

These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

``long_description``

EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or
`#egg=project-version` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable
source distribution, or to HTML page(s) that have direct links to such, then
EasyInstall will be able to locate downloads automatically. If you want to
make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```bash
easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
--------------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like ``1.0a1.dev-r1263`` which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1`` the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

.. code-block:: python

    install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::
python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (``egg_info -RDb ""``) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ``setup.py``, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------
``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don’t have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.
Command Reference

.. _alias:

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist    # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word "daily" were replaced with ``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when
You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

```
``bdist_egg`` - Create a Python Egg for the project
```

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

```
--dist-dir=DIR, -d DIR
```

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.
``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:
``develop`` - Deploy the project source in "Development Mode"
============================================================================
This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to
activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.
``--egg-path=DIR``

Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `\[develop\]` section or on the command line.

`easy_install` - Find and install packages
============================================

This command runs the `EasyInstall` tool <easy_install.html> for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=======================================================

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

`--tag-build=NAME, -b NAME`

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered lower than the project's default version. (If you want to make the version number higher than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=`` or `--tag-build=`` as an argument to the `egg_info` command.

`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form ".rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a ".rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)
If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

`--no-svn-revision, -R`

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

`--tag-date, -d`

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

`--no-date, -D`

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options

`--egg-base=SOURCEDIR, -e SOURCEDIR`

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`:

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:
```
install` - Run `easy_install` or old-style installation
```

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

```
--single-version-externally-managed`
```

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

```
install_egg_info` - Install an `egg-info` directory in `site-packages`
```

Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

```
--install-dir=DIR, -d DIR`
```

The parent directory where the `egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.
This command assumes that the ```egg_info``` command has been given valid options via the command line or ```setup.cfg```, as it will invoke the ```egg_info``` command and use its options to locate the project's source ```.egg-info``` directory.

``__rotate__``:

```rotate``` - Delete outdated distribution files

As you develop new versions of your project, your distribution (```dist```) directory will gradually fill up with older source and/or binary distribution files. The ```rotate``` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *required*. The project name and ```-*``` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ```.zip``` or ```.egg``` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files identified by a pattern specified with the ```--match``` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``

Directory where the distributions are. This defaults to the value of the ```bdist``` command's ```--dist-dir``` option, which will usually be the project's ```dist``` subdirectory.

**Example 1**: Delete all `.tar.gz` files from the distribution directory, except for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

    setup.py rotate --match=py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:
``saveopts`` - Save used options to a configuration file
========================================================

Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command):

```bash
setup.py build --compiler=mingw32 saveopts
```

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the configuration file options to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

```bash
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

```bash
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options
--------------------------

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--u` or `--f`.

``--user-config, -u``

Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `--g` or `--f`.
``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``--g`` or ``--u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:
``setopt`` - Set a distutils or setuptools option in a config file
============================================================

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names):

```python
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```python
setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``--r`` or ``--remove`` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file`
options_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
=================================================

When doing test-driven development, or running automated builds that need
testing before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the `develop` command. The `test` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on `sys.path`, after first running `build_ext -i` and
`egg_info` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a `unittest`
test suite by either a function, a `TestCase` class or method, or a module
or package containing `TestCase` classes. If the named suite is a module,
and the module has an `additional_tests()` function, it is called and the
result (which must be a `unittest.TestSuite`) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a `test_loader`, the rules for processing the chosen `test_suite` may
differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their
non-`unittest` tests in `TestSuite` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest`
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` or ``--quiet`` option, either as a global option to
the setup script (e.g. `setup.py -q test`) or as an option for the `test`
command itself (e.g. `setup.py test -q`). There is one other option
available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run
(e.g. `some_module.test_suite`). The default for this option can be
set by giving a `test_suite` argument to the `setup()` function, e.g.:

```python
setup(
    # ...
```
If you did not set a ``test_suite`` in your ``setup()`` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

===========================================================================

The `upload` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

``upload`` command with support for `keyring`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

```bash
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': ********
```

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

===========================================================================

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the
subdirectory ```docs```, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | |-- html
 | | | |-- index.html
 | | | `-- tips_tricks.html
 | |-- conf.py
 | |-- index.txt
 | `-- tips_tricks.txt

You can simply pass the documentation directory path to the ```upload_docs``` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ```--upload-dir``` is given, ```upload_docs``` will attempt to run the ```build_sphinx``` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other ```setuptools```-based commands, you can define useful defaults in the ```setup.cfg``` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The ```upload_docs``` command has the following options:

``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).
Extending and Reusing Setuptools
--------------------------------

Creating `distutils` Extensions
=================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on 'Dynamic Discovery of Services and Plugins' above for some more background on entry points.)

Adding Commands
----------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!
Adding `setup()` Arguments

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

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.
Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils `Distribution` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
cscript using your extension lists your project in its `setup_requires`
argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources`
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers`
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument `foo_bar`, which is a list of
lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any
project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    ),
)
```

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes it to
a file. Here's what the writer utility looks like::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```
As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

---

**Adding Support for Revision Control Systems**

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.
It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ``setup_requires``. When you create a source distribution with the ``sdist`` command, setuptools automatically records what files were found in the SOURCES.txt file. That way, recipients of source distributions don’t need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `some/dir` under the current directory should NOT be rendered as `./some/dir` or `/somewhere/some/dir`, but *always* as simply `some/dir`.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use `distutils.log.warn()` to inform the user of the missing program(s).

Subclassing `Command`

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing `setuptools` Code

`ez_setup`

```
XXX
```

`setuptools.archive_util`

```
XXX
```
Mailing List and Bug Tracker
===========================

Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/docs/setuptools.txt

No license file was found, but licenses were detected in source scan.

for more details.

Found in path(s):
* /opt/cola/permits/1259872913_1649359929.72/0/setuptools-22-0-5-zip/setuptools-22.0.5/CHANGES.rst

---

### 1.218 cracklib 2.9.5

#### 1.218.1 Available under license:

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Version 2.1, February 1999

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Random Hacker.

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

That's all there is to it!

---------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
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
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nnueul@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.

-- Nathan

---
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
> >
> > 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
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.
unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
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
> 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
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > 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
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
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....
> > 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

Open Source Used In IOS XR Software 7.3.3 2553
> 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@neulerger.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] (hel=192.168.1.13)
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11CeOcX-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>
    <EC90713277D2BE41B710CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <11A71264-F6DC-4E25-B0DD-56FBFE6E9F@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
> 
> > ---------- 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

1.219 libgpg-error 1.24-r0.23.38.5

1.219.1 Available under license :

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

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1.220 python3-iniparse 0.4-r0.25.38.5
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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<td>PSF</td>
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<td>2002-2003</td>
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Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

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

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

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

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

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

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   a) 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.

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That's all there is to it!
1.224 libksba 1.3.4-r0.23.38.5

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TERMS AND CONDITIONS

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
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Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates
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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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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
3a0982da308228d796df35f98d787c5c0f2bb5b6.

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.

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Version 2, June 1991

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

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
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this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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

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

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Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
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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 3a0982da308228d796df35f98d787c5c7f2bb5b6.

  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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Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst

No license file was found, but licenses were detected in source scan.

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data["__version__"],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
        ]
    }

    setup(**arguments)
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.290/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.235 libedit 3.1

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1.236 zlib 1.2.11-r0.18.38.5

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1.237 libsemanage 2.6

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1.238 lz4 131+git0+d86dc91677

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1.250 perl-module-zmq-libzmq3 1.19-r0.24.38.5

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=head1 NAME
ZMQ::LibZMQ2 - A libzmq 2.x wrapper for Perl

=head1 SYNOPSIS
use ZMQ::LibZMQ;

my $ctxt = zmq_init($threads);
my $rv   = zmq_term($ctxt);

my $msg  = zmq_msg_init();
my $msg  = zmq_msg_init_size( $size );
my $msg  = zmq_msg_init_data( $data );
my $rv   = zmq_msg_close( $msg );
my $rv   = zmq_msg_move( $dest, $src );
my $rv   = zmq_msg_copy( $dest, $src );
my $data = zmq_msg_data( $msg );
my $size = zmq_msg_size( $msg );

my $sock = zmq_socket( $ctxt, $type );
my $rv   = zmq_close( $sock );
my $rv   = zmq_setsockopt( $socket, $option, $value );
my $val  = zmq_getsockopt( $socket, $option );
my $rv  = zmq_bind( $sock, $addr );
my $rv   = zmq_send( $sock, $msg, $flags );
my $msg  = zmq_recv( $sock, $flags );

=head1 INSTALLATION
If you have libzmq registered with pkg-config:

perl Makefile.PL
make
make test
make install

If you don't have pkg-config, and libzmq is installed under /usr/local/libzmq:

ZMQ_HOME=/usr/local/libzmq \
    perl Makefile.PL
make
make test
make install

If you want to customize include directories and such:

ZMQ_INCLUDES=/path/to/libzmq/include \
ZMQ_LIBS=/path/to/libzmq/lib \
ZMQ_H=/path/to/libzmq/include/zmq.h \
    perl Makefile.PL
make
make test
make install

If you want to compile with debugging on:

perl Makefile.PL -g

=head1 DESCRIPTION

The C<ZMQ::LibZMQ2> module is a wrapper of the 0MQ message passing library for Perl.

Before you start using this module, please make sure you have read and understood the zguide.

http://zguide.zeromq.org/page:all

For specifics on each function, please refer to their documentation for the definitive explanation of each.

http://api.zeromq.org/2-2:_start

This module is merely a thin wrapper around the C API: You need to understand how the C API works in order to properly use this module.

Note that this is a wrapper for libzmq 2.x. For 3.x, you need to check L<ZMQ::LibZMQ3>

=head1 BASIC USAGE
Please make sure you already have ZMQ::Constants module. If you installed ZMQ::LibZMQ3 from CPAN via cpan/cpanm, it should have already been installed for you. All socket types and other flags are declared in this module.

To start using ZMQ::LibZMQ2, you need to create a context object, then as many ZMQ::LibZMQ2::Socket objects as you need:

```perl
my $ctxt = zmq_init;
my $socket = zmq_socket( $ctxt, ... options );
```

You need to call `zmq_bind()` or `zmq_connect()` on the socket, depending on your usage. For example on a typical server-client model you would write on the server side:

```perl
zmq_bind( $socket, "tcp://127.0.0.1:9999" );
```

and on the client side:

```perl
zmq_connect( $socket, "tcp://127.0.0.1:9999" );
```

The underlying zeromq library offers TCP, multicast, in-process, and ipc connection patterns. Read the zeromq manual for more details on other ways to setup the socket.

When sending data, you can either pass a ZMQ::LibZMQ2::Message object or a Perl string.

```perl
# the following two send() calls are equivalent
my $msg = zmq_msg_init_data( "a simple message" );
zmq_send( $socket, $msg );

zmq_send( $socket, "a simple message" );
```

In most cases using ZMQ::LibZMQ2::Message is redundant, so you will most likely use the string version.

To receive, simply call `zmq_recv()` on the socket

```perl
my $msg = zmq_recv( $socket );
```

The received message is an instance of ZMQ::LibZMQ2::Message object, and you can access the content held in the message via the `data()` method:

```perl
my $data = zmq_msg_data( $msg );
```

=head1 ASYNCHRONOUS I/O WITH ZEROMQ

By default 0MQ comes with its own zmq_poll() mechanism that can handle non-blocking sockets. You can use this by calling `zmq_poll` with a list of hashrefs:

```perl
zmq_poll(
```
Unfortunately this custom polling scheme doesn't play too well with AnyEvent.

As of zeromq2-2.1.0, you can use getsockopt to retrieve the underlying file descriptor, so use that to integrate ZMQ::LibZMQ2 and AnyEvent:

```perl
my $socket = zmq_socket( $ctxt, ZMQ_REP );
my $fh = zmq_getsockopt( $socket, ZMQ_FD );
my $w; $w = AE::io $fh, 0, sub {  
  while ( my $msg = zmq_recv( $socket, ZMQ_RCVMORE ) ) {  
    # do something with $msg;
  }
  undef $w;
};
```

=head1 NOTES ON MULTI-PROCESS and MULTI-THREADED USAGE

0MQ works on both multi-process and multi-threaded use cases, but you need to be careful about sharing ZMQ::LibZMQ2 objects.

For multi-process environments, you should not be sharing the context object. Create separate contexts for each process, and therefore you shouldn't be sharing the socket objects either.

For multi-thread environments, you can share the same context object. However you cannot share sockets. Note that while the Perl Socket objects survive between threads, their underlying C structures do not, and you will get an error if you try to use them between sockets.

=head1 FUNCTIONS

ZMQ::LibZMQ2 attempts to stick to the libzmq interface as much as possible. Unless there is a structural problem (say, an underlying pointer that the Perl binding expects was missing), no function should throw an exception.

Return values should resemble that of libzmq, except for when new data is allocated and returned to the user - That includes things like C<zmq_init()>, C<zmq_socket()>, C<zmq_msg_data()>, etc.
Where applicable, $! should be updated to match the value set by libzmq, so you should be able to do:

```perl
my $cxt = zmq_init;
if (! $cxt) {
    die "zmq_init() failed with $!
}"

=head2 $errno = zmq_errno()

Returns the value of errno variable for the calling thread. You normally should not need to use this function. See the man page for zmq_errno() provided by libzmq.

=head2 $string = zmq_strerror( $errno )

Returns the string representation of C<$errno>. Use this to stringify errors that libzmq provides.

=head2 $cxt = zmq_init( $threads )

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!.

=head2 $rv = zmq_term( $cxt )

Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!.

=head2 $socket = zmq_socket( $cxt, $socket_type )

Creates a new socket object. C<$socket_types> are constants declared in ZMQ::Constants. Sockets cannot be reused across threads.

Returns undef upon error, and sets $!.

C<ZMQ::LibZMQ2::Socket> objects aren't thread safe due to the underlying library. Therefore, they are currently not cloned when a new Perl ithread is spawned. The variables in the new thread that contained the socket in the parent thread will be a scalar reference to C<undef> in the new thread. This makes the Perl wrapper thread safe (i.e. no segmentation faults).

=head2 $rv = zmq_bind( $sock, $address )

Binds the socket to listen to specified C<$address>.

Returns a non-zero status upon failure, and sets $!
=head2 $rv = zmq_connect( $sock, $address )

Connects the socket to specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_close( $sock )

Closes the socket explicitly.

Returns a non-zero status upon failure, and sets $!.

=head2 $value = zmq_getsockopt( $socket, $option )

Gets the value of the specified option.

If the particular version of ZMQ::LibZMQ2 does not implement the named socket option, an exception will be thrown:

/* barfs, because we don't know what type this new option is */
  zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

In this case you can either use ZMQ::Constants, or you can use one of the utility functions that ZMQ::LibZMQ2 provides.

=over 4

=item Using ZMQ::Constants

ZMQ::LibZMQ2 internally refers to ZMQ::Constants to learn about the type of a socket option. You can easily add new constants to this map:

    use ZMQ::Constants;
    ZMQ::Constants::add_sockopt_type( "int" => ZMQ_NEW_SHINY_OPTION );

=item Using utilities in ZMQ::LibZMQ2

You need to know which socket options are integers, which are strings, etc, to manipulate the socket options. Choose the right one from the following helpers that ZMQ::LibZMQ2 provides (they are not part of the libzmq interface)

/* say you know that the value is an int, int64, uint64, or char */
  by reading the zmq docs */
  $int    = zmq_getsockopt_int( $socket, ZMQ_NEW_SHINY_OPTION );
  $int64  = zmq_getsockopt_int64( $socket, ZMQ_NEW_SHINY_OPTION );
  $uint64 = zmq_getsockopt_uint64( $socket, ZMQ_NEW_SHINY_OPTION );
  $string = zmq_getsockopt_string( $socket, ZMQ_NEW_SHINY_OPTION );
Corresponding C<zmq_setsockopt_*> functions should also exist.

=head2 $status = zmq_setsockopt( $socket, $option, $value )

Sets the value of the specified option. Returns the status.

See C<zmq_getsockopt()> if you have problems with ZMQ::LibZMQ2 not knowing the type of the option.

=head2 $rv = zmq_send($sock, $message, $flags)

Sends C<$message> via C<$sock>. Argument C<$flags> may be omitted.

If C<$message> is a non-ref, creates a new ZMQ::LibZMQ2::Message object via C<zmq_msg_init_data()> , and uses that to pass to the underlying C layer.

Returns a non-zero status upon failure, and sets $!.

=head2 $message = zmq_recv($sock, $flags)

Receives a new message from C<$sock>. Argument C<$flags> may be omitted.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init()

Creates a new message object.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_data($string)

Creates a new message object, and sets the message payload to the string in C<$string>.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_size($size)

Creates a new message object, allocating C<$size> bytes. This call isn't so useful from within Perl

Returns undef upon failure, and sets $!.

=head2 $string = zmq_msg_data( $msg )

Returns the payload contained in C<$msg>
=head2 \$size = zmq_msg_size( \$msg )

Returns the size of payload contained in C<\$msg>.

=head2 zmq_msg_copy( \$dst, \$src )

Copies contents of C<\$src> to C<\$dst>.

Returns a non-zero status upon failure, and sets $!

=head2 zmq_msg_move( \$dst, \$src )

Moves contents of C<\$src> to C<\$dst>

Returns a non-zero status upon failure, and sets $!

=head2 \$rv = zmq_msg_close( \$msg )

Closes, cleans up the message.

Returns a non-zero status upon failure, and sets $!

=head2 \$rv = zmq_poll( \@pollitems, $timeout )

C<\@pollitems> are list of hash references containing the following elements:

=over 4

=item fd or socket

One of either C<fd> or C<socket> key must exist. C<fd> should contain a UNIX file descriptor. C<socket> should contain a C<ZMQ::LibZMQ2::Socket> socket object.

=item events

A bit mask containing C<ZMQ_POLLOUT>, C<ZMQ POLLIN>, C<ZMQ POLLERR> or combination thereof.

=item callback

A subroutine reference, which will be called without arguments when the socket or descriptor is available.

=back

In scalar context, returns the return value of zmq_poll() in the C layer, and sets $!.

my \$rv = zmq_poll( .... ); # do scalar(zmq_poll(...)) if you're nerotic
if ( \$rv == -1 ) {
      warn "zmq_poll failed: $!";
}
In list context, return a list containing as many booleans as there are elements in C<@pollitems>.
These booleans indicate whether the socket in question has fired the callback.

```perl
my @pollitems = (...);
my @fired     = zmq_poll( @pollitems ... );
for my $i ( 0 .. $#pollitems ) {
    my $fired = $fired[$i];
    if ( $fired ) {
        my $item = $pollitems[$i];
        ...
    }
}
```

=head2 zmq_version()

Returns the version of the underlying zeromq library that is being linked.
In scalar context, returns a dotted version string. In list context, returns a 3-element list of the version numbers:

```perl
my $version_string = ZMQ::LibZMQ2::zmq_version();
my ($major, $minor, $patch) = ZMQ::LibZMQ2::zmq_version();
```

=head2 $rv = zmq_device($type, $sock1, $sock2)

Creates a new "device". See C<zmq_device> for details. zmq_device() will only return if/when the current context is closed. Therefore, the return value is always -1, and $! is always ETERM

=head1 FUNCTIONS PROVIDED BY ZMQ::LIBZMQ2

These functions are provided by ZMQ::LibZMQ2 to make some operations easier in the Perl binding. They are not part of the official libzmq interface.

=head2 $value = zmq_getsockopt_int( $sock, $option )

=head2 $value = zmq_getsockopt_int64( $sock, $option )

=head2 $value = zmq_getsockopt_string( $sock, $option )

=head2 $value = zmq_getsockopt_uint64( $sock, $option )

=head2 $rv = zmq_setsockopt_int( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_int64( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_string( $sock, $option, $value );
DEBUGGING XS

If you see segmentation faults, and such, you need to figure out where the error is occurring in order for the maintainers to figure out what happened. Here's a very very brief explanation of steps involved.

First, make sure to compile C<ZMQ::LibZMQ2> with debugging on by specifying -g:

    perl Makefile.PL -g
    make

Then fire gdb:

    gdb perl
    (gdb) R -Mlib /path/to/your/script.pl

When you see the crash, get a backtrace:

    (gdb) bt

CAVEATS

This is an early release. Proceed with caution, please report
(or better yet: fix) bugs you encounter.

This module has been tested against B<zeromq 2.1.11>. Semantics of this
module rely heavily on the underlying zeromq version. Make sure
you know which version of zeromq you're working with.

SEE ALSO

L<http://zeromq.org>
L<http://github.com/lestrrat/p5-ZMQ>
L<ZMQ::Constants>
L<ZMQ::LibZMQ3>

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=cut

Found in path(s):
* /opt/cola/permits/1259870325_1649361086.62/0/zmq-zmq-libzmq3-1-19-tar-gz/ZMQ-ZMQ-LibZMQ3-1.19/ZMQ-LibZMQ2/lib/ZMQ/LibZMQ2.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

ZMQ::Constants - Constants for libzmq

=head1 SYNOPSIS

use ZMQ::Constants ':all'; # pulls in all constants for all versions
use ZMQ::Constants ':v3.1.1', ':all'; # pulls in constants for 3.1.1
use ZMQ::Constants ':v3.1.2', ':all'; # pulls in constants for 3.1.2

# If you know what you're doing, this is the best way:
# (i.e., explicitly import the symbols)
use ZMQ::Constants qw(ZMQ_REQ);

=head1 DESCRIPTION

libzmq is a fast-chanding beast and constants get renamed, new one gest removed, etc...

We used to auto-generate constants from the libzmq source code, but then adpating the binding code to this change got very tedious, and controling which version contains which constants got very hard to manage.

This module is now separate from ZMQ main code, and lists the constants statically. You can also specify which set of constants to pull in depending on the zmq version.

If don't care to be strict about which constants to import into your code, then don't bother with the ':vX.X.X' notation, just use like a normal module:

  use ZMQ::Constants qw(:all);     # pulls all known constants...
  # note: may contain extra constants
# if we have clashes in the future

use ZMQ::Constants qw(ZMQ_PUSH); # import just ZMQ_PUSH

=head1 SUPPORTED VERSIONS

I have checked that the constants for the following versions are available.

Note that for regular usage, you should just explicitly import what you need.
The following exist to basically allow me to create a sane catalog of what's
available in what version. I reiterate: IN MOST CASES YOU SHOULD JUST IMPORT
WHAT YOU NEED:

use ZMQ::Constants qw(ZMQ_REP ZMQ_REQ); # etc

Please send pullreqs if there are new constants that are not defined.

=over 4

=item libzmq 2.1.11

=item libzmq 3.1.1

No ZMQ device related stuff

=item libzmq 3.1.2

NOTE: This is libzmq/master branch as of this writing. new constants may have been added.
Reintroduces ZMQ device related constants, and adds ZMQ_FAIL_UNROUTABLE

=back

=head1 FUNCTIONS

These functions are usually for internal use only. You should not need to
use them if you're just a ZMQ.pm user

=head2 register_set

Creates a new "set" of constants for a particular version.

=head2 get_sockopt_type

Gets the type for the given libzmq socket option. This is used when
ZMQ::getsockopt is called to determine the underlying socket option type

=head2 set_sockopt_type
Sets the type for the given libzmq socket option.

=head1 SEE ALSO

L<ZMQ::LibZMQ2>, L<ZMQ::LibZMQ3>, L<ZMQ::CZMQ>, L<ZMQ>

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

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=cut

Found in path(s):
* /opt/cola/permits/1259870325_1649361086.62/0/zmq-zmq-libzmq3-1-19-tar-gz/ZMQ-ZMQ-LibZMQ3-1.19/ZMQ-Constants/lib/ZMQ/Constants.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

ZMQ::Socket - ZMQ Socket object

=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw(ZMQ_PUSH);

my $cxt  = ZMQ::Context->new();
my $sock = $cxt->socket( ZMQ_PUSH );

# zmq 2.1.x
$sock->send( $msg );
my $msg = $sock->recv();
# zmq 3.1.x
$ssock->send( $data, $len, $flags );
$ssock->recv( $msg, $len, $flags );
$ssock->sendmsg( $msg );
my $msg = $ssock->recvmsg();

=head1 DESCRIPTION

A ZMQ::Socket object represents a 0MQ socket.

ZMQ::Socket object can only be created via ZMQ::Context objects, so there are no public constructors.

The types of sockets that you can create, and the semantics of the socket object varies greatly on the underlying version of libzmq, so please read the documents for libzmq for details.

=head1 METHODS

=head2 bind

The C<bind($endpoint)> method function creates an endpoint for accepting connections and binds it to the socket.

=over 2

=item inproc

Local in-process (inter-thread) communication transport.

=item ipc

Local inter-process communication transport.

=item tcp

Unicast transport using TCP.

=item pgm, epgm

Reliable multicast transport using PGM.

=back

=head2 connect

Connect to an existing endpoint. Takes an endpoint string as argument, see the documentation for C<bind($endpoint)> above.
If an error occurs ( `zmq_connect()` returns a non-zero status ), then an exception is thrown.

=head2 close

Closes and terminates the socket.

=head2 send

The semantics of this function varies greatly depending on the underlying version of libzmq.

For ZMQ::LibZMQ2:

```perl
$sock->send( $msg [, $flags] );
$sock->send( $raw_string [, $flags] );
```

For ZMQ::LibZMQ3:

```perl
$sock->send( $msg, $len [, $flags] );
```

=head2 sendmsg ( $msg [, $flags] )

The `sendmsg($msg, $flags)` method queues the given message to be sent to the socket. The flags argument is a combination of the flags defined below.

C<sendmsg> is only available if you are using C<ZMQ::LibZMQ3> as the underlying library.

=head2 recv

The semantics of this function varies greatly depending on the underlying version of libzmq.

For ZMQ::LibZMQ2:

```perl
$msg = $sock->recv();
```

For ZMQ::LibZMQ3:

```perl
$sock->recv( $msg, $len [, $flags] );
```

=head2 recvmsg

The `my $msg = $sock-E<gt>recvmsg($flags)` method receives a message from the socket and returns it as a new C<ZMQ::Message> object.

If there are no messages available on the specified socket the C<recvmsg()> method blocks until the request can be satisfied.

The flags argument is a combination of the flags defined below.
C<recvmsg> is only available if you are using C<ZMQ::LibZMQ3> as the underlying library.

=head2 send_multipart( \@frames [, $flags] )

The C<send_multipart(\@frames, $flags)> method sends a multipart message to the socket. The method will send the frames with the C<ZMQ_SNDMORE> flag, except for the last. The flags argument is a combination of the flags defined below. There is no return value.

This method will use the right method for sending independent of the backend that is used.

=head2 recv_multipart( [$flags] )

The C<recv_multipart($flags)> method receives a multipart message from the socket and returns an array of C<ZMQ::Message> objects. The method will receive frames as long as the C<ZMQ_RCVMORE> flag is set on the socket. The flags argument is a combination of the flags defined below.

This method will use the right method for receiving independent of the backend that is used.

=head2 getsockopt

The C<my $optval = $sock-E<gt>getsockopt(ZMQ_SOME_OPTION)> method call retrieves the value for the given socket option.

The list of option names (constants) varies depending on the underlying libzmq version. Please refer to the manual for libzmq for the correct list.

=head2 setsockopt

The C<$sock-E<gt>setsockopt(ZMQ_SOME_OPTION, $value)> method call sets the specified option to the given value.

The list of option names (constants) varies depending on the underlying libzmq version. Please refer to the manual for libzmq for the correct list.

=head1 CAVEATS

C<ZMQ::Socket> objects aren't thread safe due to the underlying library. Therefore, they are currently not cloned when a new Perl ithread is spawned. The variables in the new thread that contained the socket in the parent thread will be a scalar reference to C<undef> in the new thread. This makes the Perl wrapper thread safe (i.e. no segmentation faults).

=head1 SEE ALSO
L<ZMQ>, L<ZMQ::Socket>

L<http://zeromq.org>

=head1 AUTHOR
Daisuke Maki E<lt>daisuke@endeworks.jpE<gt>

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The ZMQ module is
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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.0 or, at your option, any later version of Perl 5 you may have available.

=cut

Found in path(s):
* /opt/cola/permits/1259870325_1649361086.62/0/zmq-zmq-libzmq3-1-19-tar-gz/ZMQ-ZMQ-LibZMQ3-1.19/ZMQ/lib/ZMQ/Socket.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
ZMQ::CZMQ - Perl-ish wrapper for libczmq

=head1 SYNOPSIS

use ZMQ::CZMQ;
use ZMQ::Constants ...;

=head1 DESCRIPTION
ZMQ::CZMQ is a Perl-ish wrapper for libczmq. It uses ZMQ::LibCZMQ1 for its backend (when/if libczmq 2.x comes out, we may change to use ZMQ::LibCZMQ2 or whatever)

If you want a one-to-one direct mapping to libzmq, then you should be using ZMQ::LibCZMQ1

If you think your code will be used from another program that also uses libczmq, you might want to consider using the ZMQ::LibCZMQ* modules. This is because you can't write 'truly' portable code using this high level interface (libczmq's API change rather drastically between versions). Personally, I'd recommend only using this module for your one-shot scripts, and use ZMQ::LibCZMQ* for
all other uses. YMMV.

=head1 FUNCTIONS

=head2 ZMQ::CZMQ::call($funcname, @args)

Calls C<$funcname> via whichever backend loaded by ZMQ.pm. If C:@args> is passed, they are passed directly to the target function.

=head1 UNSUPPORTED

=head2 zclock_*, zfile_*, zhash_*, zlist_*, zloop_*, zmutex_*, zsys_*, and zthread_*

Functions in this area doesn't make sense to be made OO/Perlish. Either use them directly via C<<ZMQ::LibCZMQ*::> or C<<ZMQ::CZMQ::call()>

If you don't agree and would like to add them, patches are welcome.

=head1 SEE ALSO

L<http://zeromq.org>
L<http://github.com/lestrrat/p5-ZMQ>
L<ZMQ::LibCZMQ>, L<ZMQ::Constants>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

=head1 COPYRIGHT AND LICENSE

The ZMQ module is

Copyright (C) 2013 by Daisuke Maki

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.0 or, at your option, any later version of Perl 5 you may have available.
ZMQ::LibZMQ3 - A libzmq 3.x wrapper for Perl

=head1 SYNOPSIS

use ZMQ::LibZMQ3;
use ZMQ::Constants; # separate module

my $ctxt = zmq_init($threads);
my $rv   = zmq_term($ctxt);

my $msg  = zmq_msg_init();
my $msg  = zmq_msg_init_size( $size );
my $msg  = zmq_msg_init_data( $data );
my $rv   = zmq_msg_close( $msg );
my $rv   = zmq_msg_move( $dest, $src );
my $rv   = zmq_msg_copy( $dest, $src );
my $data = zmq_msg_data( $msg );
my $size = zmq_msg_size( $msg );

my $sock = zmq_socket( $ctxt, $type );
my $rv   = zmq_close( $sock );
my $rv   = zmq_setsockopt( $socket, $option, $value );
my $val  = zmq_getsockopt( $socket, $option );
my $rv   = zmq_bind( $sock, $addr );
my $rv   = zmq_send( $sock, $buffer, $length, $flags );
my $msg  = zmq_sendmsg( $sock, $msg, $flags );
my $rv   = zmq_recv( $sock, $buffer, $length, $flags );
my $msg  = zmq_recvmsg( $sock, $flags );

=head1 INSTALLATION

If you have libzmq registered with pkg-config:

perl Makefile.PL
make
make test
make install

If you don't have pkg-config, and libzmq is installed under /usr/local/libzmq:

ZMQ_HOME=/usr/local/libzmq \  
perl Makefile.PL
make
make test
make install

If you want to customize include directories and such:
If you want to compile with debugging on:

perl Makefile.PL -g

=head1 DESCRIPTION

The C\<ZMQ::LibZMQ3> module is a wrapper of the 0MQ message passing library for Perl.

Before you start using this module, please make sure you have read and understood the zguide.

http://zguide.zeromq.org/page:all

For specifics on each function, please refer to their documentation for the definitive explanation of each.

http://api.zeromq.org/

This module is merely a thin wrapper around the C API: You need to understand how the C API works in order to properly use this module.

Note that this is a wrapper for libzmq 3.x. For 2.x, you need to check L\<ZMQ::LibZMQ2>.

=head1 BASIC USAGE

Please make sure you already have ZMQ::Constants module. If you installed ZMQ::LibZMQ3 from CPAN via cpan/cpanm, it should have already been installed for you. All socket types and other flags are declared in this module.

To start using ZMQ::LibZMQ3, you need to create a context object, then as many ZMQ::LibZMQ3::Socket objects as you need:

my $ctxt = zmq_init;
my $socket = zmq_socket( $ctxt, ... options );

You need to call C\<zmq_bind()> or C\<zmq_connect()> on the socket, depending on your usage. For example on a typical server-client model you would write on the server side:

zmq_bind( $socket, "tcp://127.0.0.1:9999" );

and on the client side:
zmq_connect( $socket, "tcp://127.0.0.1:9999" );

The underlying zeromq library offers TCP, multicast, in-process, and ipc connection patterns. Read the zeromq manual for more details on other ways to setup the socket.

When sending data, you can either pass a ZMQ::LibZMQ3::Message object or a Perl string.

# the following two send() calls are equivalent
my $msg = zmq_msg_init_data( "a simple message" );
zmq_sendmsg( $socket, $msg );

zmq_sendmsg( $socket, "a simple message" );

In most cases using ZMQ::LibZMQ3::Message is redundant, so you will most likely use the string version.

To receive, simply call C<zmq_recvmsg()> on the socket

my $msg = zmq_recvmsg( $socket );

The received message is an instance of ZMQ::LibZMQ3::Message object, and you can access the content held in the message via the C<zmq_msg_data()> method:

my $data = zmq_msg_data( $msg );

=head1 WHEN IN DOUBT

0MQ is a relatively large framework, and to use it you need to be comfortable with a lot of concepts. If you think this module is not behaving like you expect it to, I<please read the documents for the C API>

=head1 ASYNCHRONOUS I/O WITH ZEROMQ

By default 0MQ comes with its own zmq_poll() mechanism that can handle non-blocking sockets. You can use this by calling zmq_poll with a list of hashrefs:

zmq_poll( {
  fd => fileno(STDOUT),
  events => ZMQ_POLLOUT,
  callback => \&callback,
},
{
  socket => $zmq_socket,
  events => ZMQ_POLLLIN,
  callback => \&callback
});
Unfortunately this custom polling scheme doesn't play too well with AnyEvent.

Fortunately you can use getsockopt to retrieve the underlying file descriptor, so use that to integrate ZMQ::LibZMQ3 and AnyEvent:

```perl
my $socket = zmq_socket( $ctxt, ZMQ_REP );
my $fh = zmq_getsockopt( $socket, ZMQ_FD );
my $w; $w = AE::io $fh, 0, sub {
    while ( my $msg = zmq_recv( $socket, ZMQ_RCVMORE ) ) {
        # do something with $msg;
    }
    undef $w;
};
```

=head1 NOTES ON MULTI-PROCESS and MULTI-THREADED USAGE

ZMQ works on both multi-process and multi-threaded use cases, but you need to be careful about sharing ZMQ::LibZMQ3 objects.

For multi-process environments, you should not be sharing the context object. Create separate contexts for each process, and therefore you shouldn't be sharing the socket objects either.

For multi-thread environments, you can share the same context object. However you cannot share sockets. Note that while the Perl Socket objects survive between threads, their underlying C structures do not, and you will get an error if you try to use them between sockets.

=head1 FUNCTIONS

ZMQ::LibZMQ3 attempts to stick to the libzmq interface as much as possible. Unless there is a structural problem (say, an underlying pointer that the Perl binding expects was missing), no function should throw an exception.

Return values should resemble that of libzmq, except for when new data is allocated and returned to the user - That includes things like C<zmq_init()>, C<zmq_socket()>, C<zmq_msg_data()> etc.

Where applicable, $! should be updated to match the value set by libzmq, so you should be able to do:

```perl
my $cxt = zmq_init();
if (! $cxt) {
    die "zmq_init() failed with $!";
}
```

=head2 $errno = zmq_errno()

Returns the value of errno variable for the calling thread. You normally should not need to use this function. See the
man page for zmq_errno() provided by libzmq.

=head2 $string = zmq_strerror( $errno )

Returns the string representation of C<$errno>. Use this to stringify errors that libzmq provides.

=head2 $cxt = zmq_init( $threads )

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!

Note: Deprecated in libzmq, but the Perl binding will silently fallback to using C<zmq_ctx_new()}, if available.

=head2 $cxt = zmq_ctx_new( $threads );

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_ctx_get( $cxt, $option )

Gets the value for the given option.

Returns -1 status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_ctx_set( $cxt, $option, $value )

Sets the value for the given option.

Returns a non-zero status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_term( $cxt )

Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!
Note: Deprecated in libzmq, but the Perl binding will silently fallback to using C<zmq_ctx_destroy()>, if available.

=head2 $rv = zmq_ctx_destroy( $cxt )

Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!.

Note: may not be available depending on your libzmq version.

=head2 $socket = zmq_socket( $cxt, $socket_type )

Creates a new socket object. C<$socket_types> are constants declared in ZMQ::Constants. Sockets cannot be reused across threads.

Returns undef upon error, and sets $!.

=head2 $rv = zmq_bind( $sock, $address )

Binds the socket to listen to specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_unbind( $sock, $address )

Stops listening on this endpoint.

Returns a non-zero status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_connect( $sock, $address )

Connects the socket to the specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_disconnect( $sock, $address )

Disconnects the socket from the specified C<$address>.

Returns a non-zero status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_close( $sock )
Closes the socket explicitly.  

Returns a non-zero status upon failure, and sets $!.

=head2 $value = zmq_getsockopt( $socket, $option )

Gets the value of the specified option.

If the particular version of ZMQ::LibZMQ3 does not implement the named socket option, an exception will be thrown:

/* barfs, because we don't know what type this new option is */
zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

In this case you can either use ZMQ::Constants, or you can use one of the utility functions that ZMQ::LibZMQ3 provides.

=over 4

=item Using ZMQ::Constants

ZMQ::LibZMQ3 internally refers to ZMQ::Constants to learn about the type of a socket option. You can easily add new constants to this map:

use ZMQ::Constants;
ZMQ::Constants::add_sockopt_type( "int" => ZMQ_NEW_SHINY_OPTION );

# Then elsewhere...
my $value = zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

=item Using utilities in ZMQ::LibZMQ3

/* say you know that the value is an int, int64, uint64, or char */
by reading the zmq docs */

$int = zmq_getsockopt_int( $socket, ZMQ_NEW_SHINY_OPTION );
$int64 = zmq_getsockopt_int64( $socket, ZMQ_NEW_SHINY_OPTION );
$uint64 = zmq_getsockopt_uint64( $socket, ZMQ_NEW_SHINY_OPTION );
$string = zmq_getsockopt_string( $socket, ZMQ_NEW_SHINY_OPTION );

=back

=head2 $status = zmq_setsockopt( $socket, $option, $value )

Sets the value of the specified option. Returns the status.

See C<zmq_getsockopt()> if you have problems with ZMQ::LibZMQ3 not knowing the type of the option.
Queues $size$ bytes from $buffer$ to be sent from the socket. Argument $flags$ may be omitted. If $size$ is -1, then the size of the buffer calculated via $SvPV()$ will be used.

Returns the number of bytes sent on success (which should be exact $size$)

Returns -1 upon failure, and sets $!$.

Queues $message$ to be sent via $sock$. Argument $flags$ may be omitted.

If $message$ is a non-ref, creates a new ZMQ::LibZMQ3::Message object via $zmq_msg_init_data()$, and uses that to pass to the underlying C layer.

Returns the number of bytes sent on success (which should be exact $size$)

Returns -1 upon failure, and sets $!$.

Note: Deprecated in favor of $zmq_msg_send()$, and may not be available depending on your libzmq version.

Queues $message$ to be sent via $sock$. Argument $flags$ may be omitted.

If $message$ is a non-ref, creates a new ZMQ::LibZMQ3::Message object via $zmq_msg_init_data()$, and uses that to pass to the underlying C layer.

Returns the number of bytes sent on success (which should be exact $size$)

Returns -1 upon failure, and sets $!$.

Note: may not be available depending on your libzmq version.

Receives a new message from $sock$, and store the message payload in $buffer$, up to $len$ bytes. Argument $flags$ may be omitted.

Returns the number of bytes in the original message, which may exceed $len$ (if you have $rv > len$, then the message was truncated).

Returns -1 upon failure, and sets $!$.

Receives a new message from $sock$. Argument $flags$ may be omitted.
Returns the message object.

Returns undef upon failure, and sets $!.

Note: Although this function is marked as deprecated in libzmq3, it will stay in the Perl binding as the official short-circuit version of C<zmq_msg_recv()> so that you don't have to create a message object every time.

=head2 $rv = zmq_msg_recv($msg, $sock, $flags)

Receives a new message from C<$sock>, and writes the new content to C<$msg>. Argument C<$flags> may be omitted.

Returns the number of bytes in the message if successful.

Returns -1 upon failure, and sets $!.

Other than the fact that libzmq has deprecated C<zmq_recvmsg()> this construct is useful if you don't want to allocate a message struct for every recv call:

my $msg = zmq_msg_init();
while (1) {
    my $rv = zmq_msg_recv($msg, $sock, $flags);
    ...
}

Note: may not be available depending on your libzmq version

=head2 $msg = zmq_msg_init()

Creates a new message object.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_data($string)

Creates a new message object, and sets the message payload to the string in C<$string>.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_size($size)

Creates a new message object, allocating C<$size> bytes. This call isn't so useful from within Perl

Returns undef upon failure, and sets $!.
=head2 $string = zmq_msg_data( $msg )

Returns the payload contained in C<$msg>.

=head2 $size = zmq_msg_size( $msg )

Returns the size of payload contained in C<$msg>.

=head2 zmq_msg_copy( $dst, $src )

Copies contents of C<$src> to C<$dst>.

Returns a non-zero status upon failure, and sets $!.

=head2 zmq_msg_move( $dst, $src )

Moves contents of C<$src> to C<$dst>

Returns a non-zero status upon failure, and sets $!.

=head2 $rv = zmq_msg_close( $msg )

Closes, cleans up the message.

Returns a non-zero status upon failure, and sets $!.

=over 4
=item fd or socket

One of either C<fd> or C<socket> key must exist. C<fd> should contain a UNIX file descriptor. C<socket> should contain a C<ZMQ::LibZMQ3::Socket> socket object.

=item events

A bit mask containing C<ZMQ_POLLOUT>, C<ZMQ_POLLIN>, C<ZMQ_POLLRERR> or combination there of.

=item callback

A subroutine reference, which will be called without arguments when the socket or descriptor is available.

=back

In scalar context, returns the return value of zmq_poll() in the C layer, and sets $!.
my $rv = zmq_poll( ... ); # do scalar(zmq_poll(...)) if you're nuerotic
if ( $rv == -1 ) {
    warn "zmq_poll failed: $!";
}

In list context, return a list containing as many booleans as there are
elements in C<$@pollitems>.
These booleans indicate whether the socket in question has fired the callback.

my @pollitems = (...);
my @fired     = zmq_poll( @pollitems ... );
for my $i ( 0 .. $#pollitems ) {
    my $fired = $fired[$i];
    if ( $fired ) {
        my $item = $pollitems[$i];
        ...
    }
}

=head2 zmq_version()

Returns the version of the underlying zeromq library that is being linked.
In scalar context, returns a dotted version string. In list context,
returns a 3-element list of the version numbers:

    my $version_string = ZMQ::LibZMQ3::zmq_version();
    my ($major, $minor, $patch) = ZMQ::LibZMQ3::zmq_version();

=head2 zmq_device($type, $sock1, $sock2)

Creates a new "device". See C<zmq_device> for details. zmq_device() will only return if/when the current context is closed. Therefore, the return value is always -1, and $! is always ETERM

Note: may not be available depending on your libzmq version.

=head2 zmq_proxy($frontend_sock, $backend_sock, $capture_sock)

WARNING: EXPERIMENTAL. Use at your own risk.

Start a proxy in the current thread, which connects the frontend socket to a backend socket. The capture sock is optional, and is by default undef.

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_socket_monitor($socket, $addr, events)

Note: may not be available depending on your libzmq version.
FUNCTIONS PROVIDED BY ZMQ::LIBZMQ3

These functions are provided by ZMQ::LibZMQ3 to make some operations easier in the Perl binding. They are not part of the official libzmq interface.

$value = zmq_getsockopt_int( $sock, $option )

$value = zmq_getsockopt_int64( $sock, $option )

$value = zmq_getsockopt_string( $sock, $option )

$value = zmq_getsockopt_uint64( $sock, $option )

$srv = zmq_setsockopt_int( $sock, $option, $value );

$srv = zmq_setsockopt_int64( $sock, $option, $value );

$srv = zmq_setsockopt_string( $sock, $option, $value );

$srv = zmq_setsockopt_uint64( $sock, $option, $value );

DEBUGGING XS

If you see segmentation faults, and such, you need to figure out where the error is occurring in order for the maintainers to figure out what happened. Here's a very very brief explanation of steps involved.

First, make sure to compile C<ZMQ::LibZMQ3> with debugging on by specifying -g:

perl Makefile.PL -g
make

Then fire gdb:

  gdb perl
  (gdb) R -Mlib /path/to/your/script.pl

When you see the crash, get a backtrace:

  (gdb) bt

CAVEATS

This is an early release. Proceed with caution, please report (or better yet: fix) bugs you encounter.

This module has been tested against B<zeromq 3.2.2>. Semantics of this module rely heavily on the underlying zeromq version. Make sure
you know which version of zeromq you're working with.

As of 1.04 some new constants have been added, but they are not really meant to be used by consumers of this module. If you find yourself looking at these, please let us know why you need to use it -- we'll see if we can find a workaround, or make these constants public.

=head1 SEE ALSO

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

L<ZMQ::Constants>

L<ZMQ::LibZMQ2>

=head1 AUTHOR

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Steffen Mueller, C<< <smueller@cpan.org> >>

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):
* /opt/cola/permits/1259870325_1649361086.62/0/zmq-zmq-libzmq3-1-19-tar-gz/ZMQ-ZMQ-LibZMQ3-1.19/ZMQ-LibZMQ3/lib/ZMQ/LibZMQ3.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

ZMQ - Perl-ish Interface libzmq

=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw(ZMQ_PUB);
my $cxt = ZMQ::Context->new(5);
my $sock = $cxt->socket( ZMQ_PUB );
$sock->bind( "tcp://192.168.11.5:9999" );

if ( $ZMQ::BACKEND eq 'ZMQ::LibZMQ2' ) {
    $sock->send( ZMQ::Message->new( "Hello" ) );
} elsif ( $ZMQ::BACKEND eq 'ZMQ::LibZMQ3' ) {
    $sock->sendmsg( ZMQ::Message->new( "Hello" ) );
}

=head1 DESCRIPTION

ZMQ is a Perl-ish wrapper for libzmq. It uses ZMQ::LibZMQ2 or ZMQ::LibZMQ3 (ZMQ::LibZMQ2 is the default) as the actual backend.

If you want a one-to-one direct mapping to libzmq, then you should be using ZMQ::LibZMQ2 or ZMQ::LibZMQ3 directly

ZMQ will automatically choose the backend (either ZMQ::LibZMQ2 or ZMQ::LibZMQ3) to use. This can be explicitly specified by setting C<PERL_ZMQ_BACKEND> environment variable.

By default ZMQ::LibZMQ2 will be used as the backend. This may change in future versions, so make sure to explicitly set your backend if you don't want it to change:

BEGIN {
    $ENV{ PERL_ZMQ_BACKEND } = 'ZMQ::LibZMQ2';
}

use ZMQ;

If you think your code will be used from another program that also uses libzmq, you might want to consider using the ZMQ::LibZMQ* modules. This is because you can't write 'truly' portable code using this high level interface (libzmq's API change rather drastically between versions). Personally, I'd recommend only using this module for your one-shot scripts, and use ZMQ::LibZMQ* for all other uses. YMMV.

=head1 FUNCTIONS

=head2 ZMQ::call( $funcname, @args )

Calls C<$funcname> via whichever backend loaded by ZMQ.pm. For example if ZMQ::LibZMQ2 is loaded:

    use ZMQ;

    my $version = ZMQ::call( "zmq_version" ); # calls ZMQ::LibZMQ2::zmq_version
If C<@args> is passed, they are passed directly to the target function.

=head1 SEE ALSO

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

L<ZMQ::Context>, L<ZMQ::Message>, L<ZMQ::Socket>, L<ZMQ::Poller>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

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=head1 NAME

ZMQ::Poller - Stateful wrapper around zmq_poll

=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw/:all/;

my $ctx = ZMQ::Context->new;

my $push = $ctx->socket(ZMQ_PUSH);
$push->bind('tcp://127.0.0.1:5908');

my $pull = $ctx->socket(ZMQ_PULL);
$pull->connect('tcp://127.0.0.1:5908');
my $poller = ZMQ::Poller->new;
$poller->register($push, ZMQ_POLLOUT);
$poller->register($pull, ZMQ_POLLPOLLIN);

my $cnt = 0;

POLL: for (;;) {
    my @fired = $poller->poll(1000); # 1 second timeout
    for (@fired) {
        if ($_->{socket} == $push && $_->{events} == ZMQ_POLLOUT) {
            $push->sendmsg("Hello world");
        }
        elsif ($_->{socket} == $pull && $_->{events} == ZMQ_POLLPOLLIN) {
            my $msg = $pull->recvmsg;
            print $msg->data . "\n";
            last POLL if ++$cnt == 10;
        }
    }
}

=head1 DESCRIPTION

ZMQ::Poller is a stateful wrapper around zmq_poll.

=head1 METHODS

=head2 ZMQ::Poller->new;

Creates a new poller object.

=head2 $poller->register($socket, ZMQ_POLLOUT|ZMQ_POLLPOLLIN)

=head2 $poller->register($fd, ZMQ_POLLOUT|ZMQ_POLLPOLLIN)

Register a socket or file descriptor for polling.

=head2 $poller->unregister($socket)

=head2 $poller->unregister($fd)

Remove the socket or file descriptor from the poller. If the same socket or file descriptor is registered for different events then all these objects are removed from the poller.

=head2 $poller->poll($timeout)
Poll the registered sockets. Returns an array of the sockets and file descriptors that fired. If no sockets or file descriptors fire within the timeout an empty array is returned.

Specify $timeout in milliseconds.

=head1 SEE ALSO

L<ZMQ>, L<ZMQ::Socket>

L<http://zeromq.org>

=head1 AUTHOR

Peter Stuifzand E<peter@stuifzand.euE>

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1.251 readline 6.3

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1.256 inetutils 1.9.2

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1.265 go-restful-swagger12 1.2

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* djb's sample implementation of curve25519 is written in a special assembly
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fields:
  site: string
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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### 1.274 zlib 1.2.3

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) 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 Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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@heading TERMS AND CONDITIONS

@enumerate 0
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``Major Component'', in this context, means a major essential component
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@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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1.287 protobuf 1.23.0

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1.289 busybox 1.22.1
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Julian Seward, Cambridge, UK.
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1.293 tar 1.27.1

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when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Files: doc/html/NCURSES-Programming-HOWTO.html
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-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp $

1.297 fsnotify 1.4.7

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1.298 jansson 2.9

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1.299 digineo-go-ping 1.0.0

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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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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{ "testfiles": [
  "test/*.uts",
  "test/contrib/*.uts"
],
"remove_testfiles": [
  "test/linux.uts",
]
"test/windows.uts",
"test/contrib/cansocket_native.uts",
"test/contrib/cansocket_python_can.uts"
],
"onlyfailed": true,
"preexec": {
"test/contrib/*.uts": "load_contrib("%name%")",
"test/cert.uts": "load_layer("tls")",
"test/sslv2.uts": "load_layer("tls")",
"test/tls*.uts": "load_layer("tls")"
},
"format": "text",
"kw_ko": [
"linux",
"windows",
"crypto_advanced",
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]

1.307 runc v1.0.2

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1.308 zlib 1.2.11

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1.309 libcgroup 0.41
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Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setopt.c
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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_sdecls.h
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1.319 sudo 1.8.17p1-r0.2.23.38.5

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysginger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
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1.321 efivar 0.24

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That's all there is to it!
#########################################################################
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## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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# version 0.1
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1.327 protobuf-c 1.4.0

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1.328 zeromq 4.1.5-r0.24.38.5

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1.331 tcl 8.6.1

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1.332 inetutils 1.9.4

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.333 setools 4.1.0-r0.23.38.5

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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(); replacement of output routines; addition of inflate(), wildcards,
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.

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

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1.335 docker v20.10.8

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf
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import (  
  "bytes"
  "encoding/json"
  "strings"
  "testing"
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
  "gotest.tools/v3/assert"
  is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
  cases := []struct {
    context  formatter.Context  
    expected string
  }{
    // Errors
    
    {  
      formatter.Context{Format: "{{InvalidFunction}}"},
      "Template parsing error: template: :1: function "InvalidFunction" not defined .",
    },
    {  
      formatter.Context{Format: "{{nil}}"},
      "Template parsing error: template: :1:2: executing " at <nil>: nil is not a command .",
    },
    // Table format
    {  
      formatter.Context{Format: NewSubscriptionsFormat("table", false)},
      "NUM          OWNER       PRODUCT ID          EXPIRES      PRICING COMPONENTS"
    },
  }

  for _, c := range cases {
    var buf bytes.Buffer
    formatter.Print(&buf, c.context)
    if !strings.EqualFold(c.expected, buf.String()) {
      t.Errorf("%s: expected '%s', got '%s'", c.context, c.expected, buf.String())
    }
  }
}
`1: License Name: name1
  Quantity: 10 nodes
  Expiration date: 2020-01-01
`,
`2: License Name: name2
  Quantity: 20 nodes
  Expiration date: 2020-01-01
`,

```go
OWNER
owner1
owner2
`,

```go
// Raw Format
{
  `license: id1
  name: name1
  owner: owner1
  components: compstring

  license: id2
  name: name2
  owner: owner2
  components: compstring

  // Custom Format
  
  `owner1
  owner2

  `owner1
  owner2
  `owner2

  }
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        }
    }
    out := &bytes.Buffer{}
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                    },
                ComponentsString: "compstring",
            },
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        }
    }
    expectedJSONs := []map[string]interface{}{
        {
            "Owner": "owner1",
            "ComponentsString": "compstring",
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
            "ID": "id1",
        }
    }
}
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1 Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(20),
},
{
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2 Quantity: 20 nodes
Expiration date: 2020-01-01",
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{}
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package engine

import (  
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

    key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}
// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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import "time"
// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string    `json:"token"
    MaxEngines  int       `json:"maxEngines"
    ScanningEnabled bool     `json:"scanningEnabled"
    Type        string    `json:"licenseType"
    Tier        string    `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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Prometheus instrumentation library for Go applications

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

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* 
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected 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
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> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
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> 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 didn't notice the licence=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=20
=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
=

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

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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
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GPL-2 ... it was a modified artistic license ... i didn't notice the
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change until it was mentioned in the latest notes.

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unless their
applications are also GPL-2 which imo is just wrong. it isn't the
place of a
library to dictate to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

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
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> > >
> > > I am sympathetic. Guys, what do you reckon?
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> >
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> > timeframe.
> >
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> > 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 LGPL 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


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

Happy now? :-)

-a
1.351 docker-ce
19.03.15+ce+git99e3ed89195c4e551e87aad1e
7453b65456b03ad-r0.28.38.6
1.351.1 Available under license:

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine

import (
  "bytes"
  "encoding/json"
  "strings"
  "testing"
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
  "gotest.tools/v3/assert"
  is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
  cases := []struct {
    context  formatter.Context
    expected string
  }
  // Errors
  {
    formatter.Context{Format: "{{InvalidFunction}}"},
    // Template parsing error: template: :1: function "InvalidFunction" not defined
}
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM     OWNER     PRODUCT ID     EXPIRES                       PRICING COMPONENTS
``
1        owner1    productid1   2020-01-01 10:00:00 +0000 UTC   compstring
2        owner2    productid2   2020-01-01 10:00:00 +0000 UTC   compstring
``
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
``
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
``
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)),
`OWNER
owner1
owner2
``
// Raw Format
{
`license: id1
name: name1
owner: owner1
components: compstring
``
license: id2
name: name2
owner: owner2
components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            {
                Num: 2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID: "id2",
                    Name: "name2",
                    ProductID: "productid2",
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                        },
                    },
                    ComponentsString: "compstring",
                },
            },
        },
    }
}
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.}
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
},
ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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import (  
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

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<th>EXPIRES</th>
<th>COMPONENTS</th>
</tr>
</thead>
</table>

```go
numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
```

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := &licenseContext{
    licenseCtx.Header = map[string]string{
```
"Num":       numHeader,
"Owner":     ownerHeader,
"Name":      licenseNameHeader,
"ID":        idHeader,
"DockerID":  dockerIDHeader,
"ProductID": productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start":     startHeader,
"Expires":   expiresHeader,
"State":     stateHeader,
"Eusa":      eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l    licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}
func (c *licenseContext) Num() int {
return c.l.Num
}
func (c *licenseContext) Owner() string {
return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}
func (c *licenseContext) Summary() string {
return c.l.String()
}
func (c *licenseContext) Name() string {
return c.l.Name
}
func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter
    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}
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    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)
    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }
}
checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}
// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Garca-Fontes, Walter
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarz, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hein, Jochen
Jerovek, Damir
Karvonen, Jorma
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frederic
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
1.385 prettytable 0.7.2-7.ph4

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

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1.389 json-c 0.12

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
  * in C (faster - it is executed many times during system startup).
  *
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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Appendix: How to Apply These Terms to Your New Libraries

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1.394 rpcbind 0.2.3-r0.39.38.5

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1.395 findutils 6.5

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1.401 x-text v0.3.7

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.403 diffutils 3.3

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scriptversion=2011-11-20.07; # UTC

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Calling this script install-sh is preferred over install.sh, to prevent
'make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch.

! /bin/sh
test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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1.405 webencodings 0.5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search(r"VERSION = '.+"'", io.open(  
    path.join(path.dirname(__file__), '__file__'), 'webencodings', '__init__.py'),
    encoding='utf-8')
).read().strip().group(1)

LONG_DESCRIPTION = io.open(  
    path.join(path.dirname(__file__), 'README.rst'), 'webencodings', 'README.rst'),
    encoding='utf-8')
).read()

setup(  
    name='webencodings',
version=VERSION,
url='https://github.com/SimonSapin/python-webencodings',
license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.1-tar-gz/webencodings-0.5.1/setup.py

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~~~

webencodings.mklabels

~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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~~~

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
    
    webencodings.labels
    ~~~~~~~~~~~~~

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        ""
        labels = [
            (repr(assert_lower(label)).lstrip('u'),
             repr(encoding['name']).lstrip('u'))
            for category in json.loads(urlopen(url).read().decode('ascii'))
            for encoding in category['encodings']
            for label in encoding['labels']]
        max_len = max(len(label) for label, name in labels)
        parts.extend(
            "    %s:%s,%s,\n" % (label, ' ' * (max_len - len(label)), name)
            for label, name in labels)
        parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_
<http://encoding.spec.whatwg.org/>.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: 
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifer: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

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1.406 libnuma 2.0.9

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Name: tunctl
Version: 1.5
Release: 1
Summary: Create and remove virtual network interfaces

Group: Applications/System
License: GPL+
URL: http://tunctl.sourceforge.net/
Source0: http://downloads.sourceforge.net/tunctl/tunctl-%{version}.tar.gz
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)

BuildRequires: docbook-utils

%description
Virtual network interface manipulation tool from User Mode Linux project.

%prep

%setup

%build
make

%install
rm -rf $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%{_mandir}/man8/tunctl.8*
%{_sbindir}/tunctl
%doc ChangeLog

%changelog
* Wed Jul  9 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.5-1
  - Update to version 1.5

* Tue Jul  8 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.4-3
  - Packaged tunctl as a upstream package of it's own

* Tue Mar 25 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-2
  - Move to sbin (Marek Mahut, #434583)
1.414 pycrypto 2.6.1-5.ph2

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Last updated: 2009-02-28

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==================================================================
libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl https://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible.

OpenSSL https://www.openssl.org/source/license.html

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GnuTLS  http://www.gnutls.org/

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WolfSSL   https://www.wolfssl.com/

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NSS     https://developer.mozilla.org/en-US/docs/Mozilla/Projects/NSS

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(Used for LDAP support) Uses a Modified BSD-style license. Since
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libssh2 https://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style
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1.416 libnl3 3.2.25

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

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally 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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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1.432 dosfs-tools 4.0-r0.23.38.5

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# Names should be added to this file like so:
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# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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1.452 cryptsetup 1.6.6

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Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
HMAC: Keyed-Hashing for Message Authentication

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

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

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

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

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

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1.466 bcrypt 3.1.7

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1.469 python-requests 2.18.4

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1.470 perl-module-linux-inotify2 1.22-r0.23.38.5

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1.471 mini-xml 2.9

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1.476 python-xmldiff 2.3-r0.15.38.5

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type License struct {
    Name string `json:"name, omitempty"`
    URL  string `json:"url, omitempty"`
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Gocheck - A rich testing framework for Go

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

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

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* MoreFiles

* A collection of File Manager and related routines

* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)

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

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The remaining code was written by many people associated with the
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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
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The decompression core code for the deflate method (inflate.[ch],
eexplode.c) was originally written by Mark Adler who submitted it
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-------------------------------------------------------------------

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1.494 go-units 0.4.0

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1.495 libsodium 1.0.1

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1.496 dosfs-tools 4.0

1.497 xz 5.1.3alpha
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* *
* curve25519-donna: Curve25519 elliptic curve, public key function
* http://code.google.com/p/curve25519-donna/
* Adam Langley <agl@imperialviolet.org>
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
* More information about curve25519 can be found here
  * http://cr.yp.to/ecdh.html
* djb's sample implementation of curve25519 is written in a special assembly
  language called qhasm and uses the floating point registers.
* This is, almost, a clean room reimplementation from the curve25519 paper. It
  uses many of the tricks described therein. Only the crecip function is taken
  from the sample implementation.
*/

1.501 pyyaml 3.13
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1.503 urllib3 1.20

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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  * Bugfixes, suggestions, Requests integration

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  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbgrn <http://dbgrn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeaders and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture
* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.513 perl-module-zmq-constants 1.04-r0.23.38.5

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=head1 NAME
ZMQ::CZMQ - Perl-ish wrapper for libczmq

=head1 SYNOPSIS
use ZMQ::CZMQ;
use ZMQ::Constants ...;

=head1 DESCRIPTION
ZMQ::CZMQ is a Perl-ish wrapper for libczmq. It uses ZMQ::LibCZMQ1 for its backend (when/if libczmq 2.x comes out, we may change to use ZMQ::LibCZMQ2 or whatever)

If you want a one-to-one direct mapping to libzmq, then you should be using ZMQ::LibCZMQ1

If you think your code will be used from another program that also uses libczmq, you might want to consider using the ZMQ::LibCZMQ* modules. This is because you can't write "truly" portable code using this high level interface (libczmq's API change rather drastically between versions). Personally, I'd recommend only using this module for your one-shot scripts, and use ZMQ::LibCZMQ* for all other uses. YMMV.

=head1 FUNCTIONS

=head2 ZMQ::CZMQ::call($funcname, @args)
Calls C<$funcname> via whichever backend loaded by ZMQ.pm.
If C@$args> is passed, they are passed directly to the target function.

=head1 UNSUPPORTED

=head2 zclock_*, zfile_*, zhash_*, zlist_*, zloop_*, zmutex_*, zsys_*, and zthread_*

Functions in this area doesn't make sense to be made OO/Perlish. Either
use them directly via C<ZMQ::LibCZMQ*>:: or C<ZMQ::CZMQ::call()>.
If you don't agree and would like to add them, patches are welcome.

=head1 SEE ALSO

L<http://zeromq.org>
L<http://github.com/lestrrat/p5-ZMQ>
L<ZMQ::LibCZMQ1>, L<ZMQ::Constants>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

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Found in path(s):
* /opt/cola/permits/1259864963_1649361158.53/0/zmq-zmq-constants-1-04-tar-gz/ZMQ-ZMQ-Constants-1.04/ZMQ-CZMQ/lib/ZMQ/CZMQ.pm
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=head1 NAME

ZMQ::LibZMQ2 - A libzmq 2.x wrapper for Perl

=head1 SYNOPSIS

use ZMQ::LibZMQ;
my $ctxt = zmq_init($threads);
my $rv   = zmq_term($ctxt);

my $msg  = zmq_msg_init();
my $msg  = zmq_msg_init_size( $size );
my $msg  = zmq_msg_init_data( $data );
my $rv   = zmq_msg_close( $msg );
my $rv   = zmq_msg_move( $dest, $src );
my $rv   = zmq_msg_copy( $dest, $src );
my $data = zmq_msg_data( $msg );
my $size = zmq_msg_size( $msg );

my $sock = zmq_socket( $ctxt, $type );
my $rv   = zmq_close( $sock );
my $rv   = zmq_setsockopt( $socket, $option, $value );
my $val  = zmq_getsockopt( $socket, $option );
my $rv   = zmq_bind( $sock, $addr );
my $rv   = zmq_send( $sock, $msg, $flags );
my $msg  = zmq_recv( $sock, $flags );

=head1 INSTALLATION

If you have libzmq registered with pkg-config:

perl Makefile.PL
make
make test
make install

If you don't have pkg-config, and libzmq is installed under /usr/local/libzmq:

ZMQ_HOME=/usr/local/libzmq
 perl Makefile.PL
make
make test
make install

If you want to customize include directories and such:

ZMQ_INCLUDES=/path/to/libzmq/include \
ZMQ_LIBS=/path/to/libzmq/lib \
ZMQ_H=/path/to/libzmq/include/zmq.h \
 perl Makefile.PL
make
make test
make install
If you want to compile with debugging on:

    perl Makefile.PL -g

=head1 DESCRIPTION

The C<ZMQ::LibZMQ2> module is a wrapper of the 0MQ message passing library for Perl.

Before you start using this module, please make sure you have read and understood the zguide.

http://zguide.zeromq.org/page:all

For specifics on each function, please refer to their documentation for the definitive explanation of each.

http://api.zeromq.org/2-2:_start

This module is merely a thin wrapper around the C API: You need to understand how the C API works in order to properly use this module.

Note that this is a wrapper for libzmq 2.x. For 3.x, you need to check L<ZMQ::LibZMQ3>

=head1 BASIC USAGE

Please make sure you already have ZMQ::Constants module. If you installed ZMQ::LibZMQ3 from CPAN via cpan/cpanm, it should have already been installed for you.

All socket types and other flags are declared in this module.

To start using ZMQ::LibZMQ2, you need to create a context object, then as many ZMQ::LibZMQ2::Socket objects as you need:

    my $ctxt = zmq_init;
    my $socket = zmq_socket( $ctxt, ... options );

You need to call C<zmq_bind()> or C<zmq_connect()> on the socket, depending on your usage. For example on a typical server-client model you would write on the server side:

    zmq_bind( $socket, "tcp://127.0.0.1:9999" );

and on the client side:

    zmq_connect( $socket, "tcp://127.0.0.1:9999" );

The underlying zeromq library offers TCP, multicast, in-process, and ipc connection patterns. Read the zeromq manual for more details on other ways to setup the socket.

When sending data, you can either pass a ZMQ::LibZMQ2::Message object or a Perl string.

    # the following two send() calls are equivalent
my $msg = zmq_msg_init_data( "a simple message" );
zmq_send( $socket, $msg );

zmq_send( $socket, "a simple message" );

In most cases using ZMQ::LibZMQ2::Message is redundant, so you will most likely use the string version.

To receive, simply call C<zmq_recv()> on the socket

my $msg = zmq_recv( $socket );

The received message is an instance of ZMQ::LibZMQ2::Message object, and you can access the content held in the message via the C<data()> method:

my $data = zmq_msg_data( $msg );

=head1 ASYNCHRONOUS I/O WITH ZEROMQ

By default 0MQ comes with its own zmq_poll() mechanism that can handle non-blocking sockets. You can use this by calling zmq_poll with a list of hashrefs:

zmq_poll( [
    { fd => fileno(STDOUT),
      events => ZMQ_POLLOUT,
      callback => \&callback,
    },
    { socket => $zmq_socket,
      events => ZMQ_POLLPOLLIN,
      callback => \&callback
    },
  ], $timeout );

Unfortunately this custom polling scheme doesn't play too well with AnyEvent.

As of zeromq2-2.1.0, you can use getsockopt to retrieve the underlying file descriptor, so use that to integrate ZMQ::LibZMQ2 and AnyEvent:

my $socket = zmq_socket( $ctxt, ZMQ_REP );
my $fh = zmq_getsockopt( $socket, ZMQ_FD );
my $w; $w = AE::io $fh, 0, sub {
    while ( my $msg = zmq_recv( $socket, ZMQ_RCVMORE ) ) {
        # do something with $msg;
    }
    undef $w;
};
NOTES ON MULTI-PROCESS and MULTI-THREADED USAGE

OMQ works on both multi-process and multi-threaded use cases, but you need to be careful about sharing ZMQ::LibZMQ2 objects.

For multi-process environments, you should not be sharing the context object. Create separate contexts for each process, and therefore you shouldn't be sharing the socket objects either.

For multi-thread environments, you can share the same context object. However you cannot share sockets. Note that while the Perl Socket objects survive between threads, their underlying C structures do not, and you will get an error if you try to use them between sockets.

FUNCTIONS

ZMQ::LibZMQ2 attempts to stick to the libzmq interface as much as possible. Unless there is a structural problem (say, an underlying pointer that the Perl binding expects was missing), no function should throw an exception.

Return values should resemble that of libzmq, except for when new data is allocated and returned to the user - That includes things like C<zmq_init()>, C<zmq_socket()>, C<zmq_msg_data()>, etc.

Where applicable, $! should be updated to match the value set by libzmq, so you should be able to do:

```
my $cxt = zmq_init();
if (! $cxt) {
    die "zmq_init() failed with $!";
}
```

$errno = zmq_errno()

Returns the value of errno variable for the calling thread. You normally should not need to use this function. See the man page for zmq_errno() provided by libzmq.

$string = zmq_strerror( $errno )

Returns the string representation of C<$errno>. Use this to stringify errors that libzmq provides.

$cxt = zmq_init( $threads )

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!.

$srv = zmq_term( $cxt )
Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!

=head2 $socket = zmq_socket( $cxt, $socket_type )

Creates a new socket object. C<$socket_types> are constants declared in ZMQ::Constants. Sockets cannot be reused across threads.

Returns undef upon error, and sets $!

C<ZMQ::LibZMQ2::Socket> objects aren't thread safe due to the underlying library. Therefore, they are currently not cloned when a new Perl thread is spawned. The variables in the new thread that contained the socket in the parent thread will be a scalar reference to C<undef> in the new thread. This makes the Perl wrapper thread safe (i.e. no segmentation faults).

=head2 $rv = zmq_bind( $sock, $address )

Binds the socket to listen to specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_connect( $sock, $address )

Connects the socket to specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_close( $sock )

Closes the socket explicitly.

Returns a non-zero status upon failure, and sets $!

=head2 $value = zmq_getsockopt( $socket, $option )

Gets the value of the specified option.

If the particular version of ZMQ::LibZMQ2 does not implement the named socket option, an exception will be thrown:

/ * barfs, because we don't know what type this new option is */
zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

In this case you can either use ZMQ::Constants, or you can use one of the utility functions that ZMQ::LibZMQ2 provides.
=over 4

=item Using ZMQ::Constants

ZMQ::LibZMQ2 internally refers to ZMQ::Constants to learn about the type of a
socket option. You can easily add new constants to this map:

    use ZMQ::Constants;
    ZMQ::Constants::add_sockopt_type( "int" => ZMQ_NEW_SHINY_OPTION );

=item Using utilities in ZMQ::LibZMQ2

You need to know which socket options are integers, which are strings, etc, to manipulate the socket options.
Choose the right one from the following helpers that ZMQ::LibZMQ2 provides (they are not part of the libzmq
interface)

    /* say you know that the value is an int, int64, uint64, or char *
       by reading the zmq docs */
    $int    = zmq_getsockopt_int( $socket, ZMQ_NEW_SHINY_OPTION );
    $int64  = zmq_getsockopt_int64( $socket, ZMQ_NEW_SHINY_OPTION );
    $uint64 = zmq_getsockopt_uint64( $socket, ZMQ_NEW_SHINY_OPTION );
    $string = zmq_getsockopt_string( $socket, ZMQ_NEW_SHINY_OPTION );

Corresponding C<zmq_setsockopt_*> functions should also exist.

=back

=head2 $status = zmq_setsockopt( $socket, $option, $value )

Sets the value of the specified option. Returns the status.

See C<zmq_getsockopt()> if you have problems with ZMQ::LibZMQ2 not knowing the type of the option.

=head2 $rv = zmq_send($sock, $message, $flags)

Sends C<$message> via C<$sock>. Argument C<$flags> may be omitted.

If C<$message> is a non-ref, creates a new ZMQ::LibZMQ2::Message object via C<zmq_msg_init_data()>,
and uses that to pass to the underlyng C layer..

Returns a non-zero status upon failure, and sets $!

=head2 $message = zmq_recv($sock, $flags)

Receives a new message from C<$sock>. Argument C<$flags> may be omitted.

Returns undef upon failure, and sets $!.
=head2 $msg = zmq_msg_init()
Creates a new message object.
Returns undef upon failure, and sets $!.
=head2 $msg = zmq_msg_init_data($string)
Creates a new message object, and sets the message payload to the string in C<$string>.
Returns undef upon failure, and sets $!.
=head2 $msg = zmq_msg_init_size($size)
Creates a new message object, allocating C<$size> bytes. This call isn't so useful from within Perl
Returns undef upon failure, and sets $!.
=head2 $string = zmq_msg_data( $msg )
Returns the payload contained in C<$msg>
=head2 $size = zmq_msg_size( $msg )
Returns the size of payload contained in C<$msg>
=head2 zmq_msg_copy( $dst, $src )
Copies contents of C<$src> to C<$dst>.
Returns a non-zero status upon failure, and sets $!.
=head2 zmq_msg_move( $dst, $src )
Moves contents of C<$src> to C<$dst>
Returns a non-zero status upon failure, and sets $!.
=head2 $rv = zmq_msg_close( $msg )
Closes, cleans up the message.
Returns a non-zero status upon failure, and sets $!.
=head2 $rv = zmq_poll( \@pollitems, $timeout )
C<@pollitems> are list of hash references containing the following elements:

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One of either C<fd> or C<socket> key must exist. C<fd> should contain a UNIX file descriptor. C<socket> should contain a C<ZMQ::LibZMQ2::Socket> socket object.

A bit mask containing C<ZMQ_POLLOUT>, C<ZMQ_POLLIN>, C<ZMQ_POLLERR> or combination there of.

A subroutine reference, which will be called without arguments when the socket or descriptor is available.

In scalar context, returns the return value of zmq_poll() in the C layer, and sets $!.

```perl
my $rv = zmq_poll( .... ); # do scalar(zmq_poll(...)) if you're nuerotic
if ( $rv == -1 ) {
    warn "zmq_poll failed: $!";
}
```

In list context, return a list containing as many booleans as there are elements in C<@pollitems>.
These booleans indicate whether the socket in question has fired the callback.

```perl
my @pollitems = (...);
my @fired = zmq_poll( @pollitems ... );
for my $i ( 0 .. $#pollitems ) {
    my $fired = $fired[$i];
    if ( $fired ) {
        my $item = $pollitems[$i];
        ...
    }
}
```

Returns the version of the underlying zeromq library that is being linked.
In scalar context, returns a dotted version string. In list context, returns a 3-element list of the version numbers:

```perl
my $version_string = ZMQ::LibZMQ2::zmq_version();
my ($major, $minor, $patch) = ZMQ::LibZMQ2::zmq_version();
```
=head2 $rv = zmq_device($type, $sock1, $sock2)

Creates a new "device". See C<zmq_device> for details. zmq_device() will only return if/when the current context is closed. Therefore, the return value is always -1, and $! is always ETERM

=head1 FUNCTIONS PROVIDED BY ZMQ::LIBZMQ2

These functions are provided by ZMQ::LibZMQ2 to make some operations easier in the Perl binding. They are not part of the official libzmq interface.

=head2 $value = zmq_getsockopt_int( $sock, $option )

=head2 $value = zmq_getsockopt_int64( $sock, $option )

=head2 $value = zmq_getsockopt_string( $sock, $option )

=head2 $value = zmq_getsockopt_uint64( $sock, $option )

=head2 $rv = zmq_setsockopt_int( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_int64( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_string( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_uint64( $sock, $option, $value );

=head1 DEBUGGING XS

If you see segmentation faults, and such, you need to figure out where the error is occurring in order for the maintainers to figure out what happened. Here's a very very brief explanation of steps involved.

First, make sure to compile C<ZMQ::LibZMQ2> with debugging on by specifying -g:

perl Makefile.PL -g
make

Then fire gdb:

    gdb perl
    (gdb) R -Mlib/path/to/your/script.pl

When you see the crash, get a backtrace:

    (gdb) bt

=head1 CAVEATS

This is an early release. Proceed with caution, please report
(or better yet: fix) bugs you encounter.

This module has been tested against ZeroMQ 2.1.11. Semantics of this module rely heavily on the underlying ZeroMQ version. Make sure you know which version of ZeroMQ you're working with.

=head1 SEE ALSO

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

L<ZMQ::Constants>

L<ZMQ::LibZMQ3>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

Steffen Mueller, C<< <smueller@cpan.org> >>

=head1 COPYRIGHT AND LICENSE

The ZMQ::LibZMQ2 module is

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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.0 or, at your option, any later version of Perl 5 you may have available.

=cut

Found in path(s):
* /opt/cola/permits/1259864963_1649361158.53/0/zmq-zmq-constants-1-04-tar-gz/ZMQ-ZMQ-Constants-1.04/ZMQ-LibZMQ2/lib/ZMQ/LibZMQ2.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

ZMQ::Constants - Constants for libzmq

=head1 SYNOPSIS

use ZMQ::Constants ':all'; # pulls in all constants for all versions
use ZMQ::Constants ':v3.1.1', ':all'; # pulls in constants for 3.1.1
use ZMQ::Constants ':v3.1.2', ':all'; # pulls in constants for 3.1.2
# If you know what you're doing, this is the best way:
# (i.e., explicitly import the symbols)
use ZMQ::Constants qw(ZMQ_REQ);

=head1 DESCRIPTION

libzmq is a fast-changing beast and constants get renamed, new one gest removed, etc...

We used to auto-generate constants from the libzmq source code, but then adapting the binding code to this change got very tedious, and controlling which version contains which constants got very hard to manage.

This module is now separate from ZMQ main code, and lists the constants statically. You can also specify which set of constants to pull in depending on the zmq version.

If don't care to be strict about which constants to import into your code, then don't bother with the `:vX.X.X` notation, just use like a normal module:

use ZMQ::Constants qw(:all);  # pulls all known constants...
    # note: may contain extra constants
    # if we have clashes in the future

use ZMQ::Constants qw(ZMQ_PUSH); # import just ZMQ_PUSH

=head1 SUPPORTED VERSIONS

I have checked that the constants for the following versions are available.

Note that for regular usage, you should just explicitly import what you need.
The following exist to basically allow me to create a sane catalog of what's available in what version. I reiterate: IN MOST CASES YOU SHOULD JUST IMPORT WHAT YOU NEED:

use ZMQ::Constants qw(ZMQ_REP ZMQ_REQ); # etc

Please send pullreqs if there are new constants that are not defined.

=over 4

=item libzmq 2.1.11

=item libzmq 3.1.1

No ZMQ device related stuff
NOTE: This is libzmq/master branch as of this writing. New constants may have been added.

Reintroduces ZMQ device related constants, and adds ZMQ_FAIL_UNROUTABLE

=head1 FUNCTIONS

These functions are usually for internal use only. You should not need to use them if you're just a ZMQ.pm user

=head2 register_set

Creates a new "set" of constants for a particular version.

=head2 get_sockopt_type

Gets the type for the given libzmq socket option. This is used when ZMQ::getsockopt is called to determine the underlying socket option type

=head2 set_sockopt_type

Sets the type for the given libzmq socket option.

=head1 SEE ALSO

L<ZMQ::LibZMQ2>, L<ZMQ::LibZMQ3>, L<ZMQ::CZMQ>, L<ZMQ>

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

=head1 COPYRIGHT AND LICENSE

The ZeroMQ module is

Copyright (C) 2010 by Daisuke Maki

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.0 or, at your option, any later version of Perl 5 you may have available.
Found in path(s):
* /opt/cola/permits/1259864963_1649361158.53/0/zmq-zmq-constants-1-04-tar-gz/ZMQ-ZMQ-Constants-1.04/ZMQ-Constants/lib/ZMQ/Constants.pm

No license file was found, but licenses were detected in source scan.

NAME

ZMQ::LibZMQ3 - A libzmq 3.x wrapper for Perl

SYNOPSIS

use ZMQ::LibZMQ3;
use ZMQ::Constants; # separate module

my $ctxt = zmq_init($threads);
my $rv   = zmq_term($ctxt);

my $msg   = zmq_msg_init();
my $msg   = zmq_msg_init_size( $size );
my $msg   = zmq_msg_init_data( $data );
my $rv   = zmq_msg_close( $msg );
my $rv   = zmq_msg_move( $dest, $src );
my $rv   = zmq_msg_copy( $dest, $src );
my $data = zmq_msg_data( $msg );
my $size = zmq_msg_size( $msg );

my $sock = zmq_socket( $ctxt, $type );
my $rv   = zmq_close( $sock );
my $rv   = zmq_setsockopt( $socket, $option, $value );
my $val  = zmq_getsockopt( $socket, $option );
my $rv   = zmq_bind( $sock, $addr );
my $rv   = zmq_send( $sock, $buffer, $length, $flags );
my $msg   = zmq_sendmsg( $sock, $msg, $flags );
my $rv   = zmq_recv( $sock, $buffer, $length, $flags );
my $msg   = zmq_recvmsg( $sock, $flags );

INSTALLATION

If you have libzmq registered with pkg-config:

perl Makefile.PL
make
make test
make install

If you don't have pkg-config, and libzmq is installed under /usr/local/libzmq:
ZMQ_HOME=/usr/local/libzmq
perl Makefile.PL
make
make test
make install

If you want to customize include directories and such:

ZMQ_INCLUDES=/path/to/libzmq/include \
ZMQ_LIBS=/path/to/libzmq/lib \
ZMQ_H=/path/to/libzmq/include/zmq.h \
   perl Makefile.PL
make
make test
make install

If you want to compile with debugging on:

perl Makefile.PL -g

=head1 DESCRIPTION

The C<ZMQ::LibZMQ3> module is a wrapper of the 0MQ message passing library for Perl.

Before you start using this module, please make sure you have read and understood the zguide.

http://zguide.zeromq.org/page:all

For specifics on each function, please refer to their documentation for the definitive explanation of each.

http://api.zeromq.org/

This module is merely a thin wrapper around the C API: You need to understand how the C API works in order to properly use this module.

Note that this is a wrapper for libzmq 3.x. For 2.x, you need to check L<ZMQ::LibZMQ2>

=head1 BASIC USAGE

Please make sure you already have ZMQ::Constants module. If you installed ZMQ::LibZMQ3 from CPAN via cpan/cpanm, it should have already been installed for you. All socket types and other flags are declared in this module.

To start using ZMQ::LibZMQ3, you need to create a context object, then as many ZMQ::LibZMQ3::Socket objects as you need:

   my $ctxt = zmq_init;
my $socket = zmq_socket( $ctxt, ... options );

You need to call C<zmq_bind()> or C<zmq_connect()> on the socket, depending on your usage. For example on a typical server-client model you would write on the server side:

    zmq_bind( $socket, "tcp://127.0.0.1:9999" );

and on the client side:

    zmq_connect( $socket, "tcp://127.0.0.1:9999" );

The underlying zeromq library offers TCP, multicast, in-process, and ipc connection patterns. Read the zeromq manual for more details on other ways to setup the socket.

When sending data, you can either pass a ZMQ::LibZMQ3::Message object or a Perl string.

    # the following two send() calls are equivalent
    my $msg = zmq_msg_init_data( "a simple message" );
    zmq_sendmsg( $socket, $msg );

    zmq_sendmsg( $socket, "a simple message" );

In most cases using ZMQ::LibZMQ3::Message is redundant, so you will most likely use the string version.

To receive, simply call C<zmq_recvmsg()> on the socket

    my $msg = zmq_recvmsg( $socket );

The received message is an instance of ZMQ::LibZMQ3::Message object, and you can access the content held in the message via the C<zmq_msg_data()> method:

    my $data = zmq_msg_data( $msg );

=head1 WHEN IN DOUBT

0MQ is a relatively large framework, and to use it you need to be comfortable with a lot of concepts. If you think this module is not behaving like you expect it to, I<please read the documents for the C API>.

=head1 ASYNCHRONOUS I/O WITH ZEROMQ

By default 0MQ comes with its own zmq_poll() mechanism that can handle non-blocking sockets. You can use this by calling zmq_poll with a list of hashrefs:

    zmq_poll[
        { fd => fileno(STDOUT),
    ]
events => ZMQ_POLLOUT,
callback => \&callback,
},
{
socket => $zmq_socket,
events => ZMQ_POLLIN,
callback => \&callback
},
], $timeout );
Unfortunately this custom polling scheme doesn't play too well with AnyEvent.
Fortunately you can use getsockopt to retrieve the underlying file descriptor,
so use that to integrate ZMQ::LibZMQ3 and AnyEvent:
my $socket = zmq_socket( $ctxt, ZMQ_REP );
my $fh = zmq_getsockopt( $socket, ZMQ_FD );
my $w; $w = AE::io $fh, 0, sub {
while ( my $msg = zmq_recv( $socket, ZMQ_RCVMORE ) ) {
# do something with $msg;
}
undef $w;
};
=head1 NOTES ON MULTI-PROCESS and MULTI-THREADED USAGE
0MQ works on both multi-process and multi-threaded use cases, but you need
to be careful about sharing ZMQ::LibZMQ3 objects.
For multi-process environments, you should not be sharing the context object.
Create separate contexts for each process, and therefore you shouldn't
be sharing the socket objects either.
For multi-thread environments, you can share the same context object. However
you cannot share sockets. Note that while the Perl Socket objects survive
between threads, their underlying C structures do not, and you will get an
error if you try to use them between sockets.
=head1 FUNCTIONS
ZMQ::LibZMQ3 attempts to stick to the libzmq interface as much as possible. Unless there is a structural problem
(say, an underlying pointer that the Perl binding expects was missing), no function should throw an exception.
Return values should resemble that of libzmq, except for when new data is allocated and returned to the user - That
includes things like C<zmq_init()>, C<zmq_socket()>, C<zmq_msg_data()>, etc.
Where applicable, $! should be updated to match the value set by libzmq, so you should be able to do:

Open Source Used In IOS XR Software 7.3.3 6136


my $cxt = zmq_init();
if (! $cxt) {
    die "zmq_init() failed with $!";
}

=head2 $errno = zmq_errno()

Returns the value of errno variable for the calling thread. You normally should not need to use this function. See the man page for zmq_errno() provided by libzmq.

=head2 $string = zmq_strerror( $errno )

Returns the string representation of C<$errno>. Use this to stringify errors that libzmq provides.

=head2 $cxt = zmq_init( $threads )

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!.

Note: Deprecated in libzmq, but the Perl binding will silently fallback to using C<zmq_ctx_new()>, if available.

=head2 $cxt = zmq_ctx_new( $threads );

Creates a new context object. C<$threads> argument is optional. Context objects can be reused across threads.

Returns undef upon error, and sets $!.

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_ctx_get( $cxt, $option )

Gets the value for the given option.

Returns -1 status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_ctx_set( $cxt, $option, $value )

Sets the value for the given option.

Returns a non-zero status upon failure, and sets $!.

Note: may not be available depending on your libzmq version.
=head2 $rv = zmq_term( $cxt )

Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!.

Note: Deprecated in libzmq, but the Perl binding will silently fallback to using C<zmq_ctx_destroy()>, if available.

=head2 $rv = zmq_ctx_destroy( $cxt )

Terminates the context. Be careful, as it might hang if you have pending socket operations.

Returns a non-zero status upon failure, and sets $!.

Note: may not be available depending on your libzmq version.

=head2 $socket = zmq_socket( $cxt, $socket_type )

Creates a new socket object. C<$socket_types> are constants declared in ZMQ::Constants. Sockets cannot be reused across threads.

Returns undef upon error, and sets $!.

=head2 $rv = zmq_bind( $sock, $address )

Binds the socket to listen to specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_unbind( $sock, $address )

Stops listening on this endpoint.

Returns a non-zero status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_connect( $sock, $address )

Connects the socket to the specified C<$address>.

Returns a non-zero status upon failure, and sets $!

=head2 $rv = zmq_disconnect( $sock, $address )
Disconnects the socket from the specified C<$address>.

Returns a non-zero status upon failure, and sets $!

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_close( $sock )

Closes the socket explicitly.

Returns a non-zero status upon failure, and sets $!

=head2 $value = zmq_getsockopt( $socket, $option )

Gets the value of the specified option.

If the particular version of ZMQ::LibZMQ3 does not implement the named socket option, an exception will be thrown:

/* barfs, because we don't know what type this new option is */
zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

In this case you can either use ZMQ::Constants, or you can use one of the utility functions that ZMQ::LibZMQ3 provides.

=over 4

=item Using ZMQ::Constants

ZMQ::LibZMQ3 internally refers to ZMQ::Constants to learn about the type of a socket option. You can easily add new constants to this map:

use ZMQ::Constants;
ZMQ::Constants::add_sockopt_type( "int" => ZMQ_NEW_SHINY_OPTION );

# Then elsewhere...
my $value = zmq_getsockopt( $socket, ZMQ_NEW_SHINY_OPTION );

=item Using utilities in ZMQ::LibZMQ3

/* say you know that the value is an int, int64, uint64, or char */
by reading the zmq docs */
$int    = zmq_getsockopt_int( $socket, ZMQ_NEW_SHINY_OPTION );
$int64  = zmq_getsockopt_int64( $socket, ZMQ_NEW_SHINY_OPTION );
$uint64 = zmq_getsockopt_uint64( $socket, ZMQ_NEW_SHINY_OPTION );
$string  = zmq_getsockopt_string( $socket, ZMQ_NEW_SHINY_OPTION );
=head2 $status = zmq_setsockopt( $socket, $option, $value )

Sets the value of the specified option. Returns the status.

See C<zmq_getsockopt()> if you have problems with ZMQ::LibZMQ3 not knowing the type of the option.

=head2 $bytes = zmq_send($sock, $buffer, $size, $flags)

Queues C<$size> bytes from C<$buffer> to be sent from the socket. Argument C<$flags> may be omitted. If C<$size> is -1, then the size of the buffer calculated via C<SvPV()> will be used.

Returns the number of bytes sent on success (which should be exact C<$size>)

Returns -1 upon failure, and sets $!.

=head2 $rv = zmq_sendmsg($sock, $message, $flags)

Queues C<$message> to be sent via C<$sock>. Argument C<$flags> may be omitted.

If C<$message> is a non-ref, creates a new ZMQ::LibZMQ3::Message object via C<zmq_msg_init_data()>, and uses that to pass to the underlying C layer.

Returns the number of bytes sent on success (which should be exact C<$size>)

Returns -1 upon failure, and sets $!.

Note: Deprecated in favor of C<zmq_msg_send()>, and may not be available depending on your libzmq version.

=head2 $rv = zmq_msg_send($message, $sock, $flags)

Queues C<$message> to be sent via C<$sock>. Argument C<$flags> may be omitted.

If C<$message> is a non-ref, creates a new ZMQ::LibZMQ3::Message object via C<zmq_msg_init_data()>, and uses that to pass to the underlying C layer.

Returns the number of bytes sent on success (which should be exact C<$size>)

Returns -1 upon failure, and sets $!.

Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_recv($sock, $buffer, $len, $flags)

Receives a new message from C<$sock>, and store the message payload in C<$buffer>, up to C<$len> bytes. Argument C<$flags> may be omitted.
Returns the number of bytes in the original message, which may exceed \$len (if you have \$rv \gt \$len, then the message was truncated).

Returns -1 upon failure, and sets $!.

=head2 $message = zmq_recvmsg($sock, $flags)

Receives a new message from $sock. Argument $flags may be omitted.
Returns the message object.

Returns undef upon failure, and sets $!.

Note: Although this function is marked as deprecated in libzmq3, it will stay in the Perl binding as the official short-circuit version of \zmq_msg_recv(), so that you don't have to create a message object every time.

=head2 $rv = zmq_msg_recv($msg, $sock, $flags)

Receives a new message from $sock, and writes the new content to $msg. Argument $flags may be omitted. Returns 0 upon success, -1 on failure and sets $!.

Other than the fact that libzmq has deprecated \zmq_recvmsg(), this construct is useful if you don't want to allocate a message struct for every recv call:

my $msg = zmq_msg_init();
while (1) {
    my $rv = zmq_msg_recv($msg, $sock, $flags);
    ...
}

Note: may not be available depending on your libzmq version

=head2 $msg = zmq_msg_init()

Creates a new message object.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_data($string)

Creates a new message object, and sets the message payload to the string in $string.

Returns undef upon failure, and sets $!.

=head2 $msg = zmq_msg_init_size($size)
Creates a new message object, allocating \$size bytes. This call isn’t so useful from within Perl

Returns undef upon failure, and sets $!.

=head2 \$string = zmq_msg_data( \$msg )

Returns the payload contained in \$msg

=head2 \$size = zmq_msg_size( \$msg )

Returns the size of payload contained in \$msg

=head2 zmq_msg_copy( \$dst, \$src )

Copies contents of \$src to \$dst.

Returns a non-zero status upon failure, and sets $!.

=head2 zmq_msg_move( \$dst, \$src )

Moves contents of \$src to \$dst

Returns a non-zero status upon failure, and sets $!.

=head2 \$rv = zmq_msg_close( \$msg )

Closes, cleans up the message.

Returns a non-zero status upon failure, and sets $!.

=head2 \$rv = zmq_poll( \@pollitems, $timeout )

\@pollitems are list of hash references containing the following elements:

=over 4

=item fd or socket

One of either \$fd or \$socket key must exist. \$fd should contain a UNIX file descriptor. \$socket should contain a \$ZMQ::LibZMQ3::Socket socket object.

=item events

A bit mask containing \$ZMQ_POLLOUT, \$ZMQ POLLIN, \$ZMQ POLLERR or combination there of.

=item callback
A subroutine reference, which will be called without arguments when the socket or descriptor is available.

=back

In scalar context, returns the return value of zmq_poll() in the C layer, and sets $!.

    my $rv = zmq_poll( .... ); # do scalar(zmq_poll(...)) if you're nuerotic
    if ( $rv == -1 ) {
        warn "zmq_poll failed: $!";
    }

In list context, return a list containing as many booleans as there are elements in C<@pollitems>.
These booleans indicate whether the socket in question has fired the callback.

    my @pollitems = (...);
    my @fired     = zmq_poll( @pollitems ... );
    for my $i ( 0 .. $#pollitems ) {
        my $fired = $fired[$i];
        if ( $fired ) {
            my $item = $pollitems[$i];
            ...
        }
    }

=head2 zmq_version()

Returns the version of the underlying zeromq library that is being linked.
In scalar context, returns a dotted version string. In list context,
returns a 3-element list of the version numbers:

    my $version_string = ZMQ::LibZMQ3::zmq_version();
    my ($major, $minor, $patch) = ZMQ::LibZMQ3::zmq_version();

=head2 zmq_device($type, $sock1, $sock2)

Creates a new "device". See C<zmq_device> for details. zmq_device() will only return if/when the current context
is closed. Therefore, the return value is always -1, and $! is always ETERM

Note: may not be available depending on your libzmq version.

=head2 zmq_proxy($frontend_sock, $backend_sock, $capture_sock)

WARNING: EXPERIMENTAL. Use at your own risk.

Start a proxy in the current thread, which connects the frontend socket to a
backend socket. The capture sock is optional, and is by default undef.
Note: may not be available depending on your libzmq version.

=head2 $rv = zmq_socket_monitor($socket, $addr, $events)

Note: may not be available depending on your libzmq version.

=head1 FUNCTIONS PROVIDED BY ZMQ::LIBZMQ3

These functions are provided by ZMQ::LibZMQ3 to make some operations easier in the Perl binding. They are not part of the official libzmq interface.

=head2 $value = zmq_getsockopt_int( $sock, $option )

=head2 $value = zmq_getsockopt_int64( $sock, $option )

=head2 $value = zmq_getsockopt_string( $sock, $option )

=head2 $value = zmq_getsockopt_uint64( $sock, $option )

=head2 $rv = zmq_setsockopt_int( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_int64( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_string( $sock, $option, $value );

=head2 $rv = zmq_setsockopt_uint64( $sock, $option, $value );

=head1 DEBUGGING XS

If you see segmentation faults, and such, you need to figure out where the error is occurring in order for the maintainers to figure out what happened. Here's a very very brief explanation of steps involved.

First, make sure to compile C<ZMQ::LibZMQ3> with debugging on by specifying -g:

```
perl Makefile.PL -g
make
```

Then fire gdb:

```
gdb perl
(gdb) R -Mlib /path/to/your/script.pl
```

When you see the crash, get a backtrace:

```
(gdb) bt
```

=head1 CAVEATS
This is an early release. Proceed with caution, please report
(or better yet: fix) bugs you encounter.

This module has been tested against B<zeromq 3.2.2>. Semantics of this
module rely heavily on the underlying zeromq version. Make sure
you know which version of zeromq you're working with.

As of 1.04 some new constants have been added, but they are not really
meant to be used by consumers of this module. If you find yourself
looking at these, please let us know why you need to use it -- we'll see
if we can find a workaround, or make these constants public.

=head1 SEE ALSO

L<http://zeromq.org>

L<http://github.com/lestrrat/p5-ZMQ>

L<ZMQ::Constants>

L<ZMQ::LibZMQ2>

=head1 AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

Steffen Mueller, C<< <smueller@cpan.org> >>

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  1.04/ZMQ-LibZMQ3/lib/ZMQ/LibZMQ3.pm

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=head1 NAME

ZMQ::Socket - ZMQ Socket object
=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw(ZMQ_PUSH);

my $cxt  = ZMQ::Context->new();
my $sock = $cxt->socket( ZMQ_PUSH );

# zmq 2.1.x
$sock->send( $msg );
my $msg = $sock->recv();

# zmq 3.1.x
$sock->send( $data, $len, $flags );
$sock->recv( $msg, $len, $flags );
$sock->sendmsg( $msg );
my $msg = $sock->recvmsg();

=head1 DESCRIPTION

A ZMQ::Socket object represents a 0MQ socket.

ZMQ::Socket object can only be created via ZMQ::Context objects, so there are
no public constructors.

The types of sockets that you can create, and the semantics of the socket
object varies greatly on the underlying version of libzmq, so please read
the documents for libzmq for details.

=head1 METHODS

=head2 bind

The C<bind($endpoint)> method function creates an endpoint for accepting
connections and binds it to the socket.

=over 2

=item inproc

Local in-process (inter-thread) communication transport.

=item ipc

Local inter-process communication transport.

=item tcp
Unicast transport using TCP.

=item pgm, epgm

Reliable multicast transport using PGM.

=back

=head2 connect

Connect to an existing endpoint. Takes an endpoint string as argument, see the documentation for C<bind($endpoint)> above.

If an error occurs (C<zmq_connect()> returns a non-zero status), then an exception is throw.

=head2 close

Closes and terminates the socket.

=head2 send

The semantics of this function varies greatly depending on the underlying version of libzmq.

For ZMQ::LibZMQ2:

$sock->send( $msg [, $flags] );
$sock->send( $raw_string [, $flags] );

For ZMQ::LibZMQ3:

$sock->send( $msg, $len [, $flags] );

=head2 sendmsg ( $msg [, $flags] )

The C<sendmsg($msg, $flags)> method queues the given message to be sent to the socket. The flags argument is a combination of the flags defined below.

C<sendmsg> is only available if you are using C<ZMQ::LibZMQ3> as the underlying library.

=head2 recv

The semantics of this function varies greatly depending on the underlying version of libzmq.

For ZMQ::LibZMQ2:
$msg = $sock->recv();

For ZMQ::LibZMQ3:

$sock->recv( $msg, $len [, $flags] );

=head2 recvmsg

The C<$my $msg = $sock-E<gt>recvmsg($flags)> method receives a message from
the socket and returns it as a new C<ZMQ::Message> object.
If there are no messages available on the specified socket
the C<recvmsg()> method blocks until the request can be satisfied.
The flags argument is a combination of the flags defined below.

C<recvmsg> is only available if you are using C<ZMQ::LibZMQ3> as the underlying library.

=head2 send_multipart( \@frames [, $flags] )

The C<send_multipart(\@frames, $flags)> method sends a multipart message to the
socket. The method will send the frames with the C<ZMQ_SNDMORE> flag, except
for the last. The flags argument is a combination of the flags defined below.
There is no return value.

This method will use the right method for sending independent of the backend
that is used.

=head2 recv_multipart( [$flags] )

The C<recv_multipart($flags)> method receives a multipart message from the
socket and returns an array of C<ZMQ::Message> objects. The method will receive
frames as long as the C<ZMQ_RCVMORE> flag is set on the socket. The flags argument
is a combination of the flags defined below.

This method will use the right method for receiving independent of the backend
that is used.

=head2 getsockopt

The C<my $optval = $sock-E<gt>getsockopt(ZMQ_SOME_OPTION)> method call
retrieves the value for the given socket option.

The list of option names (constants) varies depending on the underlying libzmq
version. Please refer to the manual for libzmq for the correct list.

=head2 setsockopt

The C<$sock-E<gt>setsockopt(ZMQ_SOME_OPTION, $value)> method call
sets the specified option to the given value.
The list of option names (constants) varies depending on the underlying libzmq version. Please refer to the manual for libzmq for the correct list.

=head1 CAVEATS

C<ZMQ::Socket> objects aren't thread safe due to the underlying library. Therefore, they are currently not cloned when a new Perl pthread is spawned. The variables in the new thread that contained the socket in the parent thread will be a scalar reference to C<undef> in the new thread. This makes the Perl wrapper thread safe (i.e. no segmentation faults).

=head1 SEE ALSO

L<ZMQ>, L<ZMQ::Socket>

L<http://zeromq.org>

=head1 AUTHOR

Daisuke Maki E<lt>daisuke@endeworks.jpE<gt>

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=cut

Found in path(s):
* /opt/cola/permits/1259864963_1649361158.53/0/zmq-zmq-constants-1-04-tar-gz/ZMQ-ZMQ-Constants-1.04/ZMQ/lib/ZMQ/Socket.pm

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=head1 NAME

ZMQ::Poller - Stateful wrapper around zmq_poll

=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw/:all/;
my $ctx = ZMQ::Context->new;

my $push = $ctx->socket(ZMQ_PUSH);
$push->bind('tcp://127.0.0.1:5908');

my $pull = $ctx->socket(ZMQ_PULL);
$pull->connect('tcp://127.0.0.1:5908');

my $poller = ZMQ::Poller->new;
$poller->register($push, ZMQ_POLLOUT);
$poller->register($pull, ZMQ_POLLIN);

my $cnt = 0;

POLL: for (;;) {
    my @fired = $poller->poll(1000); # 1 second timeout
    for (@fired) {
        if ($_->{socket} == $push && $_->{events} == ZMQ_POLLOUT) {
            $push->sendmsg("Hello world");
        } elsif ($_->{socket} == $pull && $_->{events} == ZMQ_POLLIN) {
            my $msg = $pull->recvmsg;
            print $msg->data . "\n";
            last POLL if ++$cnt == 10;
        }
    }
}

=head1 DESCRIPTION

ZMQ::Poller is a stateful wrapper around zmq_poll.

=head1 METHODS

=head2 ZMQ::Poller->new;

Creates a new poller object.

=head2 $poller->register($socket, ZMQ_POLLOUT|ZMQ_POLLIN)

Register a socket or file descriptor for polling.

=head2 $poller->unregister($socket)

=head2 $poller->unregister($fd)
Remove the socket or file descriptor from the poller. If the same socket or file descriptor is registered for different events then all these objects are removed from the poller.

=head2 $poller->poll($timeout)

Poll the registered sockets. Returns an array of the sockets and file descriptors that fired. If no sockets or file descriptors fire within the timeout an empty array is returned.

Specify $timeout in milliseconds.

=head1 SEE ALSO

L<ZMQ>, L<ZMQ::Socket>

L<http://zeromq.org>

=head1 AUTHOR

Peter Stuifzand E<peter@stuifzand.euE>

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=head1 NAME

ZMQ - Perl-ish Interface libzmq

=head1 SYNOPSIS

use ZMQ;
use ZMQ::Constants qw(ZMQ_PUB);

my $cxt = ZMQ::Context->new(5);
my $sock = $cxt->socket( ZMQ_PUB );
$sock->bind( "tcp://192.168.11.5:9999" );

if ( $ZMQ::BACKEND eq 'ZMQ::LibZMQ2' ) {
    $sock->send( ZMQ::Message->new( "Hello" ) );
} elsif ( $ZMQ::BACKEND eq 'ZMQ::LibZMQ3' ) {
    $sock->sendmsg( ZMQ::Message->new( "Hello" ) );
}

=head1 DESCRIPTION

ZMQ is a Perl-ish wrapper for libzmq. It uses ZMQ::LibZMQ2 or ZMQ::LibZMQ3 (ZMQ::LibZMQ2 is the default) as the actual backend.

If you want a one-to-one direct mapping to libzmq, then you should be using ZMQ::LibZMQ2 or ZMQ::LibZMQ3 directly

ZMQ will automatically choose the backend (either ZMQ::LibZMQ2 or ZMQ::LibZMQ3) to use. This can be explicitly specified by setting C<PERL_ZMQ_BACKEND> environment variable.

By default ZMQ::LibZMQ2 will be used as the backend. This may change in future versions, so make sure to explicitly set your backend if you don't want it to change:

BEGIN {
    $ENV{ PERL_ZMQ_BACKEND } = 'ZMQ::LibZMQ2';
}

use ZMQ;

If you think your code will be used from another program that also uses libzmq, you might want to consider using the ZMQ::LibZMQ* modules. This is because you can't write "truly" portable code using this high level interface (libzmq's API change rather drastically between versions). Personally, I'd recommend only using this module for your one-shot scripts, and use ZMQ::LibZMQ* for all other uses. YMMV.

=head1 FUNCTIONS

=head2 ZMQ::call( $funcname, @args )

Calls C<$funcname> via whichever backend loaded by ZMQ.pm. For example if ZMQ::LibZMQ2 is loaded:

use ZMQ;

my $version = ZMQ::call( "zmq_version" ); # calls ZMQ::LibZMQ2::zmq_version

If C<@args> is passed, they are passed directly to the target function.
SEE ALSO

L<http://zeromq.org>
L<http://github.com/lestrrat/p5-ZMQ>
L<ZMQ::Context>, L<ZMQ::Message>, L<ZMQ::Socket>, L<ZMQ::Poller>

AUTHOR

Daisuke Maki C<< <daisuke@endeworks.jp> >>

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Found in path(s):
* /opt/cola/permits/1259864963_1649361158.53/0/zmq-zmq-constants-1.04-tar-gz/ZMQ-ZMQ-Constants-1.04/ZMQ/lib/ZMQ.pm

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NAME
   Logfile::Rotate - Perl module to rotate logfiles.

SYNOPSIS
   use Logfile::Rotate;
   my $log = new Logfile::Rotate( File   => '/var/adm/syslog/syslog.log',
          Count  => 7,
          Gzip  => 'lib',
          Post   => sub{
            open(IN, "'/var/run/syslog.pid'";
            kill("HUP", chomp(<IN>));
          } Dir    => '/var/log/old',
          Flock  => 'yes',
          Persist => 'yes',
# process log file

$log->rotate();

or

my $log = new Logfile::Rotate( File => '/var/adm/syslog',
                               Gzip => '/usr/local/bin/gzip');

# process log file

$log->rotate();

undef $log;

DESCRIPTION

I have used the name space of the Logfile::Base manpage package by
*Ulrich Pfeifer*, as the use of this module closely relates to the
processing logfiles.

new `new' accepts the following arguments, `File', `Count', `Gzip',
`Pre', `Post', `Flock' and `Dir' with only `File' being mandatory.
`new' will open and lock the file, so you may co-ordinate the
processing of the file with rotating it. The file is closed and
unlocked when the object is destroyed, so you can do this explicitly
by `undef'ing the object.

The `Pre'/`Post' arguments allow you to pass function references to
this method, which you may use as a callback for any processing you
want before or after the rotation. For example, you may notify the
process writing to the file that it has been rotated.

The `Pre' function is passed the current filename to be rotated as
an argument and the `Post' function is passed the current filename
that was rotated and that file's new filename including any
extension added by compression previously.

Both the `Pre' and `Post' function references you provide are
executed within an `eval' statement inside the `rotate' method. If
the `eval' returns an error then the `rotate' method will croak at
that point.

The `Signal' argument is deprecated by the `Post' argument.

The `Flock' argument allows you to specify whether the perl function
`flock' is used to lock the file during the rotation operation.
Apparently flock causes problems on some platforms and this option
has been added to allow you to control the program's behaviour. By default the file will be locked using `flock'.

The `Persist' argument allows you to control whether the program will try to set the current log file ownership and permissions on any new files that may be created by the rotation. In some circumstances the program doing the file rotation may not have sufficient permission to `chown' on the file. By default the program will try to preserve ownership and permissions.

rotate()

This method will copy the file passed in `new' to a file of the same name, with a numeric extension and truncate the original file to zero length. The numeric extension will range from 1 up to the value specified by Count, or 7 if none is defined, with 1 being the most recent file. When Count is reached, the older file is discarded in a FIFO (first in, first out) fashion. If the argument `Dir' was given, all old files will be placed in the specified directory.

The `Post' function is the last step executed by the rotate method so the return code of rotate will be the return code of the function you proved, or 1 by default.

The copy function is implemented by using the File::Copy manpage package, but I have had a few people suggest that they would prefer the File::Move manpage. I'm still not decided on this as you would lose data if the move should fail.

Optional Compression

If available `rotate' will also compress the file with the gzip manpage program or the program passed as the `Gzip' argument.

You may now also use `lib' as a value for the `Gzip' argument. This directs the program to load the `Compress::Zlib' module, if available and use it to do the compression within perl. This avoids the security issues associated with spawning external programs and is the recommended value for this option.

If no argument is defined it will first check to see if the `Compress::Zlib' module can be loaded then check the perl Config manpage to determine if gzip is available on your system. In this case the gzip manpage must be in your current path to succeed, and accept the `-f' option.

See the the section on "WARNING" section below.

Optional Relocation Directory
If you specify an argument for `Dir' then the file being rotated will be relocated to the directory specified. Along with any other files that may have been rotated previously. If the directory name specified does not exist then it will be created with `0750' permissions. If you wish to have other permissions on the directory then I would recommend you create the directory before using this module.

See the section on "WARNING" section below.

WARNING
If a system call is made to gzip this makes this module vulnerable to security problems if a rogue gzip is in your path or gzip has been sabotaged. For this reason a STRONGLY RECOMMEND you DO NOT use this module while you are ROOT.

For a more secure alternative install the `Compress::Zlib' module and use the lib value for the `Gzip' argument.

If you specify an argument for `Dir' and the directory name you pass does not exist, this module will create the directory with permissions `0750'.

DEPENDANCIES
See the File::Copy manpage.

If `Gzip' is being used it must create files with an extension of `.gz' for the file to be picked by the rotate cycle.

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SEE ALSO
the File::Copy manpage, the Logfile::Base manpage, the flock manpage
Changes file for change history and credits for contributions.

RETURN
All functions return 1 on success, 0 on failure.

AUTHOR
Paul Gampe <paulg@apnic.net>

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=head1 NAME

Logfile::Rotate - Perl module to rotate logfiles.

=head1 SYNOPSIS

use Logfile::Rotate;
my $log = new Logfile::Rotate( File   => '/var/adm/syslog/syslog.log',
   Count  => 7,
   Gzip   => 'lib',
   Post   => sub{
      open(IN, "/var/run/syslog.pid");
      kill("HUP", chomp(<IN>)); }
   Dir    => '/var/log/old',
   Flock  => 'yes',
   Persist => 'yes',
);

# process log file

$log->rotate();

or

my $log = new Logfile::Rotate( File  => '/var/adm/syslog',
   Gzip   => '/usr/local/bin/gzip');

# process log file

$log->rotate();

undef $log;
I have used the name space of L<logfile::Base> package by I<Ulrich Pfeifer>, as the use of this module closely relates to the processing logfiles.

C<new> accepts the following arguments, C<File>, C<Count>, C<Gzip>, C<Pre>, C<Post>, C<Flock> and C<Dir> with only C<File> being mandatory. C<new> will open and lock the file, so you may co-ordinate the processing of the file with rotating it. The file is closed and unlocked when the object is destroyed, so you can do this explicitly by C<undef>'ing the object.

The C<Pre>/C<Post> arguments allow you to pass function references to this method, which you may use as a callback for any processing you want before or after the rotation. For example, you may notify the process writing to the file that it has been rotated.

The C<Pre> function is passed the current filename to be rotated as an argument and the C<Post> function is passed the current filename that was rotated and that file's new filename including any extension added by compression previously.

Both the C<Pre> and C<Post> function references you provide are executed within an C<eval> statement inside the C<rotate> method. If the C<eval> returns an error then the C<rotate> method will croak at that point.

The C<Signal> argument is deprecated by the C<Post> argument.

The C<Flock> argument allows you to specify whether the perl function C<flock> is used to lock the file during the rotation operation. Apparently flock causes problems on some platforms and this option has been added to allow you to control the programs behaviour. By default the file will be locked using C<flock>.

The C<Persist> argument allows you to control whether the program will try and set the current log file ownership and permissions on any new files that may be created by the rotation. In some circumstances the program doing the file rotation may not have sufficient permission to C<chown> on the file. By default the program will try and preserve ownership and permissions.

This method will copy the file passed in C<new> to a file of the same
name, with a numeric extension and truncate the original file to zero length. The numeric extension will range from 1 up to the value specified by Count, or 7 if none is defined, with 1 being the most recent file. When Count is reached, the older file is discarded in a FIFO (first in, first out) fashion. If the argument C<Dir> was given, all old files will be placed in the specified directory.

The C<Post> function is the last step executed by the rotate method so the return code of rotate will be the return code of the function you proved, or 1 by default.

The copy function is implemented by using the L<File::Copy> package, but I have had a few people suggest that they would prefer L<File::Move>. I'm still not decided on this as you would loose data if the move should fail.

=head2 Optional Compression

If available C<rotate> will also compress the file with the L<gzip> program or the program passed as the C<Gzip> argument.

You may now also use C<lib> as a value for the C<Gzip> argument. This directs the program to load the C<Compress::Zlib> module, if available and use it do the compression within perl. B<This avoids the security issues associated with spawning external programs and is the recommended value for this option.>

If no argument is defined it will first check to see if the C<Compress::Zlib> module can be loaded then check the perl L<Config> to determine if gzip is available on your system. In this case the L<gzip> must be in your current path to succeed, and accept the C<-f> option.

See the L<"WARNING"> section below.

=head2 Optional Relocation Directory

If you specify an argument for C<Dir> then the file being rotated will be relocated to the directory specified. Along with any other files that may have been rotated previously. If the directory name specified does not exist then it will be created with C<0750> permissions. If you wish to have other permissions on the directory then I would recommend you create the directory before using this module.

See the L<"WARNING"> section below.

=head1 WARNING
If a system call is made to F<gzip> this makes this module vulnerable to
security problems if a rogue gzip is in your path or F<gzip> has been
sabotaged. For this reason a STRONGLY RECOMMEND you DO NOT use this
module while you are ROOT.

For a more secure alternative install the C<Compress::Zlib> module and
use the B<lib> value for the C<Gzip> argument.

If you specify an argument for C<Dir> and the directory name you pass
does not exist, this module B<will create> the directory with
permissions C<0750>.

=head1 DEPENDANCIES

See L<File::Copy>.

If C<Gzip> is being used it must create files with an extension
of C<.gz> for the file to be picked by the rotate cycle.

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=head1 SEE ALSO

L<File::Copy>, L<Logfile::Base>, L<flock>
F<Changes> file for change history and credits for contributions.

=head1 RETURN

All functions return 1 on success, 0 on failure.
1.521 hd-parm 9.56-r0.23.38.5

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# Contributions to the urllib3 project

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In chronological order:

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  * HTTPS patch (which inspired HTTPSCoonnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSCoonnectionPool
  * Basic-authenticated HTTPSCoonnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSCoonnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

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* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.
* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ```HTTPResponse.stream()```
* Bugfix for ```ConnectionPool.urlopen(release_conn=False)``
* Creation of ```HTTPConnectionPool.ResponseCls```

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `\stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package
* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

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  * [Brief summary of your changes]
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1.539 prometheus-client 5.1.2

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1.540 perl-module-date-calc 6.4-r0.23.38.5

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1.542 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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ASN.1 library for Python
------------------------
This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

### Features

- Generic implementation of ASN.1 types (X.208)
- Standards compliant BER/CER/DER codecs
- Dumps/loads ASN.1 structures from Python types
- 100% Python, works with Python 2.4 up to Python 3.7
- MT-safe
- Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

### Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

### How to use pyasn1

----------
With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      ),
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      ),
    ),
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python `dict`, ‘SET OF’ to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The pyasn1 <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.
In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google’s `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It’s more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
--------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
:maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
:maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
:maxdepth: 1

/changelog

License
-------

The PyASN1 software is distributed under 2-clause BSD License.
Getting help
------------

Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1
------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

  by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst`

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**1.543 udev 3.2**

**1.543.1 Available under license:**
Format: http://dep.debian.net/deps/dep5
Upstream-Name: udevil
Source: https://github.com/IgnorantGuru/udevil/tree/master/packages/
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1.546 lockfile 0.12.2

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Protocol Buffers for Go with Gadgets

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

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metrics from the pseudo-filesystem proc.

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    #   * LibTomCrypt is a library that provides various cryptographic
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1.560 paho-mqtt 1.5.0

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1.571 csrp 1.0

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1.573 libuv 1.7.4

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 */

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
    uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
    int rcount;            
    int wcount;            

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) 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.

   b) 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.

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

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

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

That's all there is to it!

--------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected 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=
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.

-- 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
>
> 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 their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writers what license they should be using. thus LGPL-2.1 enters to fill this void.

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

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
>
> 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.
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> the original license (before moving to sourceforge -- aka, 2.7) was
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>20
unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong. it isn't 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...

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. FWTW, 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
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: 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

> ---------- 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

1.592 librabbitmq 0.10.0-r0.0.38.2

1.592.1 Available under license:

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1.594 perl 5.20.0

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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
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- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
buildRequires:
File::Temp: 0.15
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<one line to give the program's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

1.595 fdisk 2.28.1-r0.3.24.38.5
1.595.1 Available under license :
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<signature of Ty Coon>, 1 April 1989
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When a program is linked with a library, whether statically or using 
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the library.

We call this license the "Lesser" General Public License because it 
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In other cases, permission to use a particular library in non-free 
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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 included without limitation in the term "modification".)

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

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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
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Preamble

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

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

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

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

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

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

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

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HISTORY -

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

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

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

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

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*
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1.606 perl-module-expect 1.32-r0.23.38.5

1.606.1 Available under license :

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---
abstract: 'automate interactions with command line programs that expose a text terminal interface.'
author:
- unknown
build_requires:
  File::Temp: '0'
  Test::Exception: '0.32'
  Test::More: '1.00'
configure_requires:
  ExtUtils::MakeMaker: '6.64'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Expect
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Errno: '0'
  Exporter: '0'
  Fcntl: '0'
  IO::Handle: '0'
  IO::Pty: '1.11'
  IO::Tty: '1.11'
  POSIX: '0'
resources:
  repository: http://github.com/szabgab/expect.pm.git
  version: '1.32'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/cola/permits/1259866158_1649367999.05/0/expect-1-32-tar-gz/Expect-1.32/META.yml

1.607 lvm2 2.02.180-r0.6.38.5
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1.613 safestring 4.1.9
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/*---------------------------------------------
 * safe_string.h
 *
 * November 2008, Bo Berry
 *
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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_string.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
* strremovews_s.c
*
* November 2008, Bo Berry
*
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*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strremovews_s.c
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#---------------------------------------------------------------
# comp-mdata.pl -- HFR Component Meta-Data File
#
# Up-to-date information about the format of data in this file may
# be found at:
#
#
# For questions/comments, please send e-mail to edde@cisco.com.
#
#
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#---------------------------------------------------------------

# Component identification
$Comp_Name = 'infra/safeC';
$Comp_Code = 'infra-safec';
$Description = 'safeC library';
$Identifier = '0x15A1';

# Exports declaration
@Exports = (
{  
    name => 'libsafec.dll',  
    cards => ['all'],  
    target_dir => 'lib',  
    implement_apis => ['safec__mem_primitives_lib__api',  
                       'safec__safe_lib_errno__api',  
                       'safec__safe_lib__api', 'safec__safe_limits__api',  
                       'safec__safe_mem_constraint__api',  
                       'safec__safe_mem_lib__api',  
                       'safec__safe_str_constraint__api',  
                       'safec__safe_string__api', 'safec__safe_str_lib__api',  
                       'safec__safe_types__api'],  
    workspace_type => "xr",  
},  
{  
    name => 'libsafec.so',  
    target_dir => '/opt/cisco/calvados/usr/lib64',  
    workspace_type => "calvados",  
},  
{  
    name => 'safec.hdr',  
},  
{  
    name => 'test_str_safec',  
    description => 'SafeC string test app',  
    cards => ['rp'],  
    target_dir => 'bin',  
    relative_dir => 'test',  
    is_private => 1,  
},  
);  

# Tools version declaration  
$MetaDataToolsVersion = '5.0'; # Change to a higher version as needed to use new attributes.  

Found in path(s):  
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/comp-mdata.pl

No license file was found, but licenses were detected in source scan.

/*================================================================----------  
* safec_str_lib.h -- Safe C Library String APIs  
*  
* October 2008, Bo Berry  
*  
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safec_str_lib.h
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/*-----------------------------------------------
* strishex_s.c
*
* October 2008, Bo Berry
*
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* /

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strishex_s.c
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#______________________________________________
# Configuration script for LIBC api testing.
#
# November 2005, Lakshmikanth
#
# Copyright (c) 2005-2006, 2010, 2013 by cisco Systems, Inc.
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#______________________________________________
unittest /vob/cisco.comp/system-infra/safe_libc/test/sesut-test/safe_string_ios.sesut
start_dir /vob/ios/sys/obj-4k-c7100
image c7200-adventerprisek9-mz
ut_flags -g
build_flags -j16 GDB_FLAG="-g" BIN_SUFFIX=".safe_libc_ut"

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/sesut-test/safe_libc_ut_dpe.conf
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strspn_s.c
*
* November 2008, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strspn_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safec_mem_lib.h -- Safe C Library Memory APIs
*
* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/
* November 2008, Bo Berry
*
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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcpyfldin_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* strpbrk_s.c
* 
* November 2008, Bo Berry
* 
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*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strpbrk_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* strislowercase_s.c
* 
* Februay 2005, Bo Berry
* 
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*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strislowercase_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* mem_primitives_lib.c - Unguarded Memory Copy Routines
* 
* February 2005, Bo Berry
* 
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/mem_primitives_lib.c
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/*
* strncpy_s.c
* October 2008, Bo Berry
*
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*
* NOTE: This function should ONLY be used when the intention is to
*       TRUNCATE the data in source into destination. If truncation
*       is not desired strcpy_s should be used.
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncpy_s.c
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/*
* strljustify_s.c
* November 2008, Bo Berry
*/
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strljustify_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_mem_lib.h -- Safe C Library Memory APIs
* 
* October 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_mem_lib.h
No license file was found, but licenses were detected in source scan.

#----------------------------------------------------------------------------
# infra/safeC/Jamfile
#
# May-2013, Subramanian Karunanithi
#
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SubDir TOP infra safeC ;

IosComponentSrc infra safeC ;
SubInclude TOP infra safeC test ;

#----------------------------------------------------------------------
# End of infra/safeC/Jamfile
#----------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-tar-gz/safeC/Jamfile
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/*------------------------------------------------------------------
* strprefix_s.c
* 
* November 2008, Bo Berry
*
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*----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-tar-gz/safeC/src/safe_string/strprefix_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strcat_s.c
* 
* October 2008, Bo Berry
*
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*----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-tar-gz/safeC/src/safe_string/strcat_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncat_s.c
* 
* October 2008, Bo Berry
*
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*----------------------------------------------------------------------
*/
NOTE: This function should ONLY be used when the intention is to TRUNCATE the data in source into destination. If truncation is not desired strcat_s should be used.

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncat_s.c

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strispassword_s.c

October 2008, Bo Berry

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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strispassword_s.c

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Jamfile - specify NG rules to build this component.

May 2013, Subramanian Karunanithi

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SearchSource $(TOP)/infra/safeC/src/safe_string;

# Disable BOSC (Built-in Object Size Checking)
local BOSC_HEADERS = ;

IosDLL/libsafec
  : abort_handler_s.c
dcdi_handler_s.c
ignore_handler_s.c
mem_primitives_lib.c
memcmp16_s.c
memcmp32_s.c
memcmp_s.c
memcpy16_s.c
memcpy32_s.c
memcpy_s.c
memmove16_s.c
memmove32_s.c
memmove_s.c
memset16_s.c
memset32_s.c
memset_s.c
safe_logger.c
safe_mem_constraint.c
safe_package_info.c
safe_str_constraint.c
set_constraint_handler_s.c
smemzero16_s.c
smemzero32_s.c
smemzero_s.c
strcasecmp_s.c
strcastestr_s.c
strcat_s.c
strcmpeq_s.c
strcmpeqld_s.c
strcmpeqldin_s.c
strcmpeqldout_s.c
strcsppn_s.c
strfirstchar_s.c
strfirstdiff_s.c
strfirstsame_s.c
strisalphanumeric_s.c
striscii_s.c
strisdigit_s.c
strishex_s.c
strislowercase_s.c
strismixedcase_s.c
strispassword_s.c
strisuppercase_s.c
strlastchar_s.c
strlastdiff_s.c
strlastsame_s.c
strljustify_s.c
strncasecmp_s.c
strncpy_s.c
strnlen_s.c
strpbrk_s.c
strprefix_s.c
strremovews_s.c
strspn_s.c
strstr_s.c
strtok_s.c
strtolowercase_s.c
strtouppercase_s.c
strzero_s.c

: NO_EXTRA_LIBS

; Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC.tar.gz/safeC/src/Jamfile

No license file was found, but licenses were detected in source scan.

/------------------------------------------------------------------
* safe_types.h -- types include for portability
* 
* March 2007, Bo Berry
* 
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/module.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/BUILD
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/header-exports.yaml
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/src.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/Makefile.binos
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/Makefile.calvados

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/*------------------------------------------------------------------
* strlastchar_s.c
*
* November 2008, Bo Berry
*
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strlastchar_s.c

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/*------------------------------------------------------------------
* safe_lib.h -- library include for portability
*
* February 2009, Bo Berry
*
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*------------------------------------------------------------------ 
*/

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/* strncasecmp_s.c 

* November 2016, Thomas Greenslade 
*
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/* mem_primitives_lib.h - Unguarded Memory Copy Routines 

* October 2005, Bo Berry 
*
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* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/mem_primitives_lib.h
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!--------------------------------------------------------------
! Test script for safe C string APIs
! Sept 8, 2009 John Qian, Bo Berry
!
! Copyright (c) 2009-2010, 2012-2013 by cisco Systems, Inc.
! All rights reserved.test
!--------------------------------------------------------------
! This file is used for generation of unit test module by SESUT.
! See http://wwwin-ses.cisco.com/unittest/sesut_ios.html for
! information about SESUT.
!
! Testing the safe C string APIs

% Cflow
! Enter the files/subsystems in the unit under test.
! These files will be instrumented for Cflow and MIF(if MIF is
! available in your view). GDB flag -g is used during compilation.
!cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
!cflow_list=strcpy.o

% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified
! then a default MIF configuration is used.
!------------------

%! DTD headers
! DTD is not available with SESUT yet.
!#include "master.h"
!#include &lt;types.h&gt;
!#include ".testtools/testtools.h"
!#include ".testtools/testtools_private.h"

%! DTD functions
! DTD is not available with SESUT yet.
! List functions to be tested for robustness
!
!mif_enable
!mif_disable
!mif_clear
!mif_lock

% env
! Use this section to list object modules and libraries that are not
! part of the standard build but are used by the tests defined in this
! file. The text following "link:" is inserted into the final link step.
!link:  xyz.o abc.o libmyunittest.a -llibmytest -ltestlib
!
! Use this section to add any special 'CFLAGS' needed to compile sesut
! generated test file
!cflags: -I../http/http_core/include
!cflags: -I../http/http_core/server
!cflags: -I../ios_http_core/config -I../http/http_core/lib
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE
!
! You can specify functions to be executed before and after the test.
! pretest is executed before executing the unit test and the posttest is
! executed after executing the unit test. These are executed once regardless
! of the repeat count. The prototypes of these functions are expected to be:
!     void <pretest>(void);
!     void <posttest>(void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!pretest:config_my_feature
!posttest:validate_results
!
! If want want your pretest/posttest functions to receive same
! parameters as the test then specify the functions as:
!pretest_withparams:config_my_feature
!posttest_withparams:validate_results
! The prototypes for these functions would be:
!     void <pretest_withparams>(<types of parameters>)
!     void <posttest_withparams>(<types of parameters>)
! Parameters are specified using "parameter:" keyword in % model" section.
! If both {pre|post}test and {pre|post}test_withparams are specified:
!     pretest is executed before pretest_withparams.
!     posttest is executed after posttest_withparams.
!
! You can specify a initializer/finalizer function to be executed
! before/after the test
! These functions are executed before/after 'pretest'/posttest' function.
! initializer function can contain code to initialize global variables used
! in your test
! finalizer function can contain code for clean up and freeing memory used
! by test
!
Both initializer and finalizer options are useful if you use SESUT loader to do unit testing and required if your test allocates heap memory. The prototypes of these functions are expected to be:

```c
void <initializer> (void);
void <finalizer> (void);
```

Define these functions in the 'model prolog' section. Note that these are optional. You can have one or both or none.

```
initializer:my_init
finalizer:my_finit
```

% model prolog

This code will be copied unchanged to the start of the generated .c file. Include definitions, declarations, include statements that are used in the model.

You can include stubs for the functions that are not ready yet but are invoked.

If you choose to have pretest and posttest functions include them here.

"model prolog " accepts additional keywords.

dt - This is meaningful in automation environments. If the test you are creating alters global state then use "dt" keyword. This informs automation framework that device should be reloaded prior to running next test.

iou - Use this keyword if the test can be executed under IOU.

preinit - Use this if the test executes prior to system initialization.

% model prolog dt

```c
#include "master.h"
#include COMP_INC(posix, sys/types.h)
#include <kernel/kas/include/danger_map_os.h>
#include <posix/include/string.h>
#include <safeC/include/safe_mem_lib.h>
#include <safeC/include/safe_str_lib.h>

#define debug_printf printf
#define MaxTestCases 61

/* global var declaration */
typedef void (*TestFuncs) (void);
static TestFuncs testFuncs[MaxTestCases];

static void test_memcmp_s (void)
{
    errno_t rc;

    int LEN=128;
    int ind;
```
int32_t std_ind;
uint32_t len;

uint8_t mem1[LEN];
uint8_t mem2[LEN];

/*---------------------------------------------*/
printf("\nmemcmp_s TESTING\n");

rc = memcmp_s(NULL, LEN, mem2, LEN, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__. __LINE__. ind, rc);
}

/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, NULL, LEN, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__. __LINE__. ind, rc);
}

/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, mem2, 0, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__. __LINE__. ind, rc);
}

/*---------------------------------------------*/
rc = memcmp_s(mem1, 0, mem2, LEN, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__. __LINE__. ind, rc);
}

/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, mem2, 0, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__. __LINE__. ind, rc);
}
rc = memcmp_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

len = 1;
memset(mem1, 55, len);
memset(mem2, 55, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

len = 2;
memset(mem1, 55, LEN);
memset(mem2, 55, LEN);
rc = memcmp_s(&mem1[1], len, &mem2[1], len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);
memset( &mem2[(len/2)], 35, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind < 1) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
len = 32;
memset(mem1, 55, len);
memset(mem2, 55, len);
memset( &mem2[(len/2)], 65, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind > -1) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
len = 3;  
memset(mem1, 55, len);
memset(mem2, 55, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
static void test_memcpy_s(void)
{
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    rsizet len;

    uint8_t  mem1[LEN+2];
    uint8_t  mem2[LEN+2];

    /*-----------------------------*/
    printf("memcpy_s TESTING\n");

    rc = memcpy_s(NULL, LEN, mem2, LEN);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------*/
    rc = memcpy_s(mem1, 0, mem2, LEN);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------*/
    rc = memcpy_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
    if (rc != ESLEMAX) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------*/
    rc = memcpy_s(mem1, LEN, NULL, LEN);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------*/
}
rc = memcpy_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}

/*---------------------------------------------*/

for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
r

rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != mem2[i]) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__,  i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] != 33) {
        printf("%d - %d m1=%d  m2=%d \n",
                __LINE__,  len, mem1[len], mem2[len]);
    }
}

/*---------------------------------------------*/

for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }
len = LEN;
rc = memcpy_s(mem1, len, mem2, (len+1));
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] != 33) {
        printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, len, mem1[len], mem2[len]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN/2;
rc = memcpy_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] != 33) {
        printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, len, mem1[len], mem2[len]);
    }
}
/*--------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d  m2=%d \n",
            __LINE__, i, mem1[i], mem2[i]);
    }
}

if (mem1[len] != 33) {
    printf("%d - %d m1=%d  m2=%d \n",
        __LINE__, len, mem1[len], mem2[len]);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d  m2=%d \n",
            __LINE__, i, mem1[i], mem2[i]);
    }
}

/*--------------------------------------------------*/
if (mem1[len] == 0) {
    printf("%d - %d m1=%d  m2=%d \n", 
        __LINE__, i, mem1[i], mem2[i]);
}

/*-----------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }

/* same ptr - no move */
rc = memcpy_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[0], len, &mem1[10], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
} else {

    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n", 
                __LINE__, i, mem1[i], mem2[i]);
        }
    }

    if (mem1[len] == 0) {
        printf("%d - %d m1=%d  m2=%d \n", 
            __LINE__, i, mem1[i], mem2[i]);
    }
}

/*-----------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[10], len, &mem1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
} else {
    for (i=10; i<len+10; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d  \n", __LINE__, i, mem1[i], mem2[i]);
        }
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 35; }
for (i=0; i<LEN; i++) { mem2[i] = 55; }

len = 5;
rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 55) {
            printf("%d - %d m1=%d
", __LINE__, i, mem1[i]);
        }
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 35; }
for (i=0; i<LEN; i++) { mem2[i] = 55; }

rc = memcpy_s(mem1, LEN, mem2, LEN/2);
if (rc != EOK) {

static void test_memmove_s(void)
{
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    uint32_t len;

    uint8_t  *mem1[LEN];
    uint8_t  *mem2[LEN];

    /*---------------------------*/
    printf("\nmemmove_s TESTING\n");
    return;
}

/*---------------------------*/

rc = memmove_s(NULL, LEN, mem2, LEN);
if (rc != ENULLP) {
    debug_printf("%s %u  Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

/*---------------------------*/

rc = memmove_s(mem1, 0, mem2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u  Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

/*---------------------------*/

rc = memmove_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
if (rc !-= ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = memmove_s(mem1, LEN, NULL, LEN);
if (rc !-= ENULLP) {
    debug_printf("%s %u Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = memmove_s(mem1, 10, mem2, 0);
if (rc !-= ESZEROL) {
    debug_printf("%s %u Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = memmove_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc !-= ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* a valid move */

len = LEN;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc !-= EOK) {
    debug_printf("%s %u Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (mem1[i] !-= mem2[i]) {
        printf("%d m1=%d m2=%d \n", 
                i, mem1[i], mem2[i]);
    }
}
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* length error */
len = LEN/2;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
   debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
   if (mem1[i] != 0) {
      printf("%d - %d m1=%d \n",
             __LINE__, i, mem1[i]);
   }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
   debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
   if (mem1[i] != 0) {
      printf("%d - %d m1=%d \n",
             __LINE__, i, mem1[i]);
   }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", 
            __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* same ptr - no move */
rc = memmove_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 25; }
for (i=10; i<LEN-10; i++) { mem1[i] = 35; }

/* overlap move */
len = 20;
rc = memmove_s(&mem1[0], len, &mem1[10], len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (mem1[i] != 35) {
        printf("%d - %d m1=%d \n", 
            __LINE__, i, mem1[i]);
    }
}
for (i=0; i<LEN; i++) { mem1[i] = 25; }
for (i=10; i<LEN-10; i++) { mem1[i] = 35; }

/* overlap move */
len = 20;
rc = memmove_s(&mem1[10], len, &mem1[0], len);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<LEN; i++) { mem2[i] = 25; }
for (i=10; i<LEN-10; i++) { mem2[i] = 35; }

for (i=0; i<10; i++) {
    if (mem1[i] != 25) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

printf("\n\nDone \n");
}

static void test_memzero_s(void)
{
    errno_t rc;

    int LEN = 512;

    uint32_t i;
    uint32_t len;

    uint8_t mem1[LEN];

    printf("\n\nmemzero_s TESTING\n");

    rc = memzero_s(NULL, LEN);
    if (rc != ENULLP) {
        debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    // more test code...
}
__FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
rc = memzero_s(mem1, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
rc = memzero_s(mem1, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
len = 1;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}
/*------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
len = 2;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 3;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = LEN;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
static void test_strcasecmp_s(void)
{
    int LEN=128;
    errno_t rc;
    int ind;
    int std_ind;
    char   str1[LEN];
    char   str2[LEN];

    printf("strncasecmp_s TESTING\n");
    rc = strncasecmp_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    printf("unstrncasecmp_s TESTING\n");
    rc = strncasecmp_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    printf("strncasecmp_s (str1, LEN, str2, &ind)\n");
    rc = strncasecmp_s(str1, LEN, str2, NULL);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    printf("strncasecmp_s (str1, 0, str2, &ind)\n");
    rc = strncasecmp_s(str1, 0, str2, &ind);
    if (rc != ESZEROL) {
printf("%s %u Error rc=%d \n",
   __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcasecmp_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
 printf("%s %u Error rc=%d \n",
   __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------*/
str1[0] = '0';
str2[0] = '0';

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
 printf("%s %u Error rc=%d \n",
   __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
 printf("%s %u Error  ind=%d rc=%d \n",
   __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
 printf("%s %u ind=%d  std_ind=%d  rc=%d \n",
   __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, 4, str2, &ind);
if (rc != ESUNTERM) {
 printf("%s %u Error rc=%d \n",
   __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/

/*-----------------------------------------------------------------------------------*/
strcpy (str1, "keep it simple");

rc = strcasecmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str1);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP it simplified");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str2);
if (std_ind <= 0) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP 1234567890");
strcpy (str2, "keep it simple");

strcpy (str1, "KEEP 1234567890");
strcpy (str2, "keep it simple");
static void test_strcasestr_s(void)
{
    int LEN=128;
    //int SHORT_LEN=5;

    // char temp_char;
    errno_t rc;

    char *sub;
    // char *std_sub;

    rsize_t len1;
    rsize_t len2;

    char str1[LEN];
    char str2[LEN];

    /*--------------------------------*/
    printf("\n\nunstrcasestr_s TESTING\n");

    rc = strcasestr_s(NULL, LEN, str2, LEN, &sub);

    /*--------------------------------*/

    rc = strcasecmp_s(str1, LEN, str2, &ind);
    if (rc != EOK) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    if (ind >= 0) {
        printf("%s %u  Error ind=%d  rc=%d \n",
                __FUNCTION__, __LINE__,  ind, rc);
    }

    /* be sure the results are the same as strcasecmp */
    std_ind = strcasecmp(str1, str2);
    if (std_ind != ind) {
        printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
                __FUNCTION__, __LINE__,  ind, std_ind, rc);
    }

    /*--------------------------------*/
    printf("\n\nDone \n");
    return ;
}
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, LEN, NULL, LEN, &sub);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, LEN, str2, 0, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

rc = strcasestr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
*str1 = '\0';
*str2 = '\0';

rc = strcasestr_s(str1, LEN, str2, Len, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
    std_sub = strcasestr(str1, str2);
    if (sub != std_sub) {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
*/
/*--------------------------------------------------*/
*str1 = '\0';
strcpy(str1, "key");

rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
    std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
*/
/*-----------------------------------------------*/

strcpy(str1, "keep it all together");
*str2 = '\0';

/* str2 being empty, must return str1 */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/* compare to legacy */
/*
std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
*/
/*-----------------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "kee");
/* substring at beginning */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[0]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep it");

/* substring in the middle - left */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "ethe");
/* substring in the middle - right */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[15]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "er");
len1 = strlen(str1);
len2 = strlen(str2);
/* substring at the end */
rc = strcasestr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[18]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/* std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
*/
/*--------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strcasestr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "1234");

len1 = strlen(str1);

/* str1 is unterminated */
rc = strcasestr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", 
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "IT ALL");

/* str2 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 2, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", 
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}
static void test_strcat_s(void)
{
    int LEN=128;

    errno_t rc;

    int32_t ind;

    char str1[LEN];
    char str2[LEN];

    /*--------------------------------*/
    printf("\n\nstrcat_s TESTING\n\n");

    rc = strcat_s(NULL, LEN, str2);
    if (rc != ENUILLP) {
        debug_printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
    /*--------------------------------*/

    rc = strcat_s(str1, LEN, NULL);
    if (rc != ENUILLP) {
        debug_printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
    /*--------------------------------*/
rc = strcat_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcat_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 1, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n",
        __FUNCTION__, __LINE__);}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 2, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n",
        __FUNCTION__, __LINE__);}
strcpy(&str1[0], "aaaaaaaaaa");
strcpy(&str2[0], "keep it simple");

rc = strcat_s(str1, 50, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/
/*------------------------------------------------__*/
str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n",
                __FUNCTION__, __LINE__);
}

/*------------------------------------------------__*/
str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/
str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 20, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
str1[0] = '\0';
str2[0] = '\0';

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__, str1);
}

strcpy(str1, "qqweqq");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "qqweqqkeep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__, str1);
}
strcpy(str1, "1234");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 12, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
}

strcpy(str1, "1234");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 52, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
}

ind = strcmp(str1, "1234keep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n", 
                __FUNCTION__, __LINE__,  str1);
}

strcpy(str1, "12345678901234567890");
rc = strcat_s(str1, 21, &str1[5]);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
}

strcpy(str2, "123");
strcpy(str1, "keep it simple");

rc = strcat_s(str2, 31, &str1[0]);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
}

strcpy(str2, "123");
strcpy(str1, "keep it simple");

rc = strcat_s(str2, 31, &str1[0]);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str2, "123keep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/
strcpy(str2, "1234");
strcpy(str1, "keep it simple");
rc = strcat_s(str2, 31, str1);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
printf("\n\nDone \n");
return ;
}

static void test_strcmp_s(void)
{
    int LEN=128;
    //int SHORT_LEN=5;
    //   char temp_char;
    errno_t rc;

    int ind;
    int std_ind;

    char str1[LEN];
    char str2[LEN];
    /*------------------------------------------*/
    printf("\n\nstrcmp_s TESTING\n");

    rc = strcmp_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
               __FUNCTION__, __LINE__, rc);
    }
    /*------------------------------------------*/
    printf("\n\nDone \n");
    return ;
}
rc = strcmp_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
rc = strcmp_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
rc = strcmp_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
rc = strcmp_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
str1[0] = '\0';
str2[0] = '\0';
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/
/*  K - k == -32 */
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/*  K - k == -32 */
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
//printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
/*--------------------------------------------------*/
/* p - P == 32 */
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
rc = strcmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

//printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
//           __FUNCTION__, __LINE__,  ind, std_ind, rc);

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");
rc = strcmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str1);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simplified");
strcpy (str2, "keep it simple");

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simplified");

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind >= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/

/*--------------------------------------------------*/

printf("\n\nDone \n");
return ;
static void test_strcmpfld_s(void)
{
    //int MAX=128;
    int LEN=128;

    errno_t rc;
    uint32_t i;
    rsize_t len;
    int ind;

    char   str1[LEN];
    char   str2[LEN];

    /*-------------------------------------*/
    printf("strcmpfld_s TESTING\n");

    rc = strcmpfld_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__,  rc);
    }

    /*------------------------------------*/
    len = 5;
    rc = strcmpfld_s(str1, len, NULL, &ind);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__,  rc);
    }

    /*--------------------------------*/
    len = 5;
    rc = strcmpfld_s(str1, len, str2, NULL);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__,  rc);
    }

    /*------------------------------*/
rc = strcmpfld_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcmpfld_s(str1, (RSIZE_MAX_STR+1), str2, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 1;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 2;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
copy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 3;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d s2[%d]=%d ind=%d rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
copy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d s2[%d]=%d ind=%d rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str1[10] = '\0';
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[10] = '\0';

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                   __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[0] = '\0';
str1[15] = '\0';

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';
str2[15] = '\0';

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                   __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[3] = '\0'; /* now place a null */

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[3] = '\0'; /* now place a null */
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[3] = \0;

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[1] = \0; /* now place nulls */
str1[20] = \0;

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[1] = \0;
str2[20] = \0;

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/

printf("\n\nDone \n");
return ;
}
static void test_strcpy_s(void)
{
  //int MAX=128;
  int LEN=128;

  errno_t rc;

  int32_t ind;
  char str1[LEN];
  char str2[LEN];

  /*-----------------------------*/
  printf("strcpy_s TESTING\n");

  rc = strcpy_s(NULL, LEN, str2);
  if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
      __FUNCTION__, __LINE__, rc);
  }

  /*-----------------------------*/

  strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

  rc = strcpy_s(str1, 5, NULL);
  if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
      __FUNCTION__, __LINE__, rc);
  }

#ifdef SAFE_LIB_STR_NULL_SLACK
  for (i=0; i<5; i++) {
    if (str1[i] != '0') {
      debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
    }
  }
#else
  if (str1[0] != '0') {
    debug_printf("%s %u   Error rc=%u \n",
      __FUNCTION__, __LINE__, rc);
  }
#endif

  /*-----------------------------*/
rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';
rc = strcpy_s(str1, LEN/2, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
#else
for (i=0; i<LEN/2; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
                        __FUNCTION__, __LINE__, rc);
    }
}
#endif
rc = strcpy_s(str1, LEN, str1);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",

#ifdef SAFE_LIB_STR_NULL_SLACK
for (i=0; i<LEN; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
#else
if (str1[0] != '\0') {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
#endif
/*--------------------------------------------------*/
strcpy(&str1[0], "keep it simple");

rc = strcpy_s(&str1[0], LEN, &str1[5]);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
#endif
/*--------------------------------------------------*/
strcpy(&str1[0], "keep it simple");  
str2[0] = '\0';
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
debug_printf("%s %u Error rc=%u \n", 
    __FUNCTION__, __LINE__, rc );
}
if (*str1 != '0') {
    debug_printf("%s %u -%s- Error rc=%u \n", 
        __FUNCTION__, __LINE__, str1, rc );
}
/*--------------------------------------------------*/
str1[0] = '0';
strcpy(&str2[0], "keep it simple");
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc );
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n", 
        __FUNCTION__, __LINE__, str1, rc );
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc );
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n", 
        __FUNCTION__, __LINE__, str1, rc );
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strcpy_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
if (*str1 != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
                __FUNCTION__, __LINE__, str1, rc);
}

/*------------------------------------------------__*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strcpy_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
if (*str1 != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
                __FUNCTION__, __LINE__, str1, rc);
}

/*-----------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "it");

rc = strcpy_s(str1, 3, str2);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
                __FUNCTION__, __LINE__, str1, rc);
}
/*----------------------------------------------------------*/

strcpy(str1, "qq12345weqeqeqeq");
strcpy(str2, "it");

rc = strcpy_s(str1, 10, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
}

/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
                 __FUNCTION__, __LINE__, str1, rc);
} 

for (i=0; i<10; i++) {
    printf("str1[%i] = %d \n", i, str1[i]); 
}

/*----------------------------------------------------------*/

printf("\n\nDone \n");
return;
} 

static void test_strcpyfld_s(void) 
{
int LEN=128;

errno_t rc;
uint32_t i;
rsizen_t len = 5;
rsizen_t slen = 5;

char  str1[LEN];
char  str2[LEN];

printf("\nstcrpyfld_s TESTING\n");

/*----------------------------------------------------------*/

rc = stcrpyfld_s(NULL, LEN, str2, slen);
if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
} 

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```c
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" );

rc = strcpyfld_s(str1, len, NULL, slen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",  __FUNCTION__, __LINE__, rc );
}
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",  __FUNCTION__, __LINE__, rc );
    }
}

/*------------------------------------------------*/

len = 5;
slen = 5;
rc = strcpyfld_s(str1, 0, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",  __FUNCTION__, __LINE__, rc );
}

/*------------------------------------------------*/

len = 5;
slen = 5;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",  __FUNCTION__, __LINE__, rc );
}

/*------------------------------------------------*/

len = 5;
slen = 0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",  __FUNCTION__, __LINE__, rc );
}
```
/*---------------------------------------*/
len = 5;
slen = len+1;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", 
                    __FUNCTION__, __LINE__,  rc );
}
/*---------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 1;
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 1;
str2[0] = \0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                    __FUNCTION__, __LINE__,  rc );
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", 
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc );
    }
}
/*---------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 2;
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 2;
str2[0] = \0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                    __FUNCTION__, __LINE__,  rc );
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u
", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
*/----------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 3;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 3;
str2[0] = '\0';
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u
", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u
", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
*/----------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = strlen(str2);
str2[0] = '\0';
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u
", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u
", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1) + 2;
str1[20] = '\0';

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb" );
slen = strlen(str1);
str2[0] = '\0';
str2[20] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc );
}

for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
                      __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc );
    }
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
return;
}

static void test_strcpyfldin_s( void )
{
    int LEN=128;

    errno_t rc;
    uint32_t i;
    rsize_t len;
    rsize_t slen;

    char  str1[LEN];
    char  str2[LEN];
/*---------------------------------------------*/
printf("\nstrcpyfldin_s TESTING\n");

rc = strcpyfldin_s(NULL, LEN, str2, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
}

/*------------------------------------------------*/
len = 5;
rc = strcpyfldin_s(str1, len, NULL, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
}

for (i=0; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
                        __FUNCTION__, __LINE__, rc );
    }
}

/*------------------------------------------------*/
rc = strcpyfldin_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
}

/*------------------------------------------------*/
rc = strcpyfldin_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
}

/*------------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = strlen(str1);
slen = strlen(str2);

rc = strcpyfldin_s(str1, len, str2, slen);
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);  
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u 
",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);  
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 2;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u 
",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);  
    }
}
debug_printf("\%s\ %u\ diff\ s1[\%d]=\%d\ s2[\%d]=\%d\ rc=\%u\ \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
}
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 3;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("\%s\ %u\ Error\ rc=\%u\ \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("\%s\ %u\ diff\ s1[\%d]=\%d\ s2[\%d]=\%d\ rc=\%u\ \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"); /* same string in dest and src */
len = LEN;
rc = strcpyfldin_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("\%s\ %u\ Error\ rc=\%u\ \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != \'\0\') {
        debug_printf("\%s\ %u\ diff\ s1[\%d]=\%d\ s2[\%d]=\%d\ rc=\%u\ \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = strlen(str1);
```c
/* overlap */
rc = strcpyfldin_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u diff s1[%d]=%d s2[%d]=%d rc=%u \n", 
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = 20;
/* overlap */
rc = strcpyfldin_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
for (i=10; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u diff s1[%d]=%d s2[%d]=%d rc=%u \n", 
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
len = strlen(str1);
strcpy(str2, "KEEP IT SIMPLE PLEASE");
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
```

if (str1[i] != str2[i]) {
    debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
}

/*--------------------------------------------------*/
strncpy(str1, "always keep it simple");
len = strlen(str1);

strncpy(str2, "keep it simple");
slen = strlen(str2);

rc = strcpyfldin_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/

printf("\n\nDone \n");
return;
}

static void test_strcpyfldout_s(void)
{
    int LEN=128;
    errno_t rc;
    uint32_t i;
    rsize_t len = 5;
    rsize_t slen = 0;

    char str1[LEN];
    char str2[LEN];

    /*---------------------------------------------*/
    printf("Uustrncpyfldout_s TESTING\n");
}
rc = strcpyfldout_s(NULL, LEN, str2, slen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcpyfldout_s(str1, len, NULL, len);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
    }
}
/*--------------------------------------------------*/
rc = strcpyfldout_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strcpyfldout_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
len = 5;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
len = 5;
slen = 6;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u  Error rc=%u \n",
             __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
slen = 1;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
             __FUNCTION__, __LINE__, rc);
}
/* str1 becomes null */
for (i=0; i<len; i++) {
    if (str1[i] != \0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
             __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 2;
slen = 2;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
             __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
             __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 3;
slen = 3;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "keep it simple for best results");
len = strlen(str1);

/*-----------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
/* same string in dest and src */
len = LEN;
rc = strcpyfldout_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*----------------------------*/

strcpy(str1, "keep it simple for best results");
len = strlen(str1);
*/ overlap */
rc = strcpyfldout_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = 20;

*/ overlap */
rc = strcpyfldout_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=10; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
len = strlen(str1);

strcpy(str2, "aaaaaaaaaaaaaa");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {
if (str1[i] != str2[i]) {
    debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
}
}

/*--------------------------------------------------*/
strcpy(str1, "always keep it simple");
len = strlen(str1);
strcpy(str2, "keep it simple");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
printf("\n\nDone \n");
return;
}

static void test_strcspn_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t count;
    int std_count;

    // rsize_t len;

    char str1[LEN];
    char str2[LEN];
printf("strcspn_s TESTING\n");
rc = strcspn_s(NULL, LEN, str2, LEN, &count);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

rc = strcspn_s(str1, LEN, NULL, LEN, &count);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

rc = strcspn_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

rc = strcspn_s(str1, 0, str2, LEN, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

rc = strcspn_s(str1, LEN, str2, 0, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

rc = strcspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
rc = strcspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (count != 0) {
    printf("%s %u  Error  count=%d rc=%d \n",
            __FUNCTION__, __LINE__, count, rc);
}
std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, 5, str2, LEN, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "keep");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
           __FUNCTION__, __LINE__, count, std_count, rc);
}
/*--------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "notincluded");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
           __FUNCTION__, __LINE__, count, std_count, rc);
}
/*--------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "1234567890");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
           __FUNCTION__, __LINE__, count, std_count, rc);
}
/*--------------------------------*/
__FUNCTION__, __LINE__, rc); 

std_count = strspn(str1, str2);
if (count != std_count) {
   printf("%s %u count=%d std_count=%d rc=%d \n", 
   __FUNCTION__, __LINE__, count, std_count, rc);
}

/*-----------------------------------------------*/

printf("\n\nDone 
");
return;
}

static void test_strfirstchar_s(void)
{
int LEN=128;

erno_t rc;
size_t len;

char *first;
char str1[LEN];

/*-----------------------------------------------*/

printf("strfirstchar_s TESTING\n");
rc = strfirstchar_s(NULL, LEN, 'a', &first);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
    __FUNCTION__, __LINE__, str1, first, rc);
}

/*-----------------------------------------------*/

rc = strfirstchar_s(str1, LEN, 'a', NULL);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
    __FUNCTION__, __LINE__, str1, first, rc);
}

/*-----------------------------------------------*/

rc = strfirstchar_s(str1, 0, 'a', &first);
if (rc != ESZEROL) {

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printf("%s %u Error str1=%p first=%p rc=%d \n", 
    __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/

rc = strfirstchar_s(str1, RSIZE_MAX_STR+1, 'a', &first);
if (rc != ESLEMAX) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/

str1[0] = '\0';

rc = strfirstchar_s(str1, LEN, 'a', &first);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/

strcpy (str1, "Keep it simple");

rc = strfirstchar_s(str1, LEN, 'z', &first);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/

strcpy (str1, "kEep it simple");

rc = strfirstchar_s(str1, LEN, 'E', &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", 
        __FUNCTION__, __LINE__, rc);
}
if (first != &str1[1]) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}
strcpy (str1, "keep it simpleZ");

rc = strfirstchar_s(str1, LEN, 'Z', &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (first != &str1[14]) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", __FUNCTION__, __LINE__, str1, first, rc);
}

strcpy (str1, "keep it simpleZ");
len = strlen(str1);
rc = strfirstchar_s(str1, len, 'Z', &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (first != &str1[14]) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", __FUNCTION__, __LINE__, str1, first, rc);
}

printf("\n\nDone \n");
return;
static void test_strfirstdiff_s(void)
{
int LEN=128;
errno_t rc;
rsizet ind;
char str1[LEN];
char str2[LEN];

/*----------------------------------------*/
printf ("strfirstdiff_s TESTING\n");
rc = strfirstdiff_s(NULL, LEN, str2, &ind);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
rc = strfirstdiff_s(str1, LEN, NULL, &ind);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
rc = strfirstdiff_s(str1, LEN, str2, NULL);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
rc = strfirstdiff_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
rc = strfirstdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
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```c
printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
str1[0] = '0';
str2[0] = '0';

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
/*   K - k == -32  */
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
//        printf("%s %u  ind=%d   rc=%d \n", __FUNCTION__, __LINE__,  ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
//    printf("%s %u  ind=%d   rc=%d \n", __FUNCTION__, __LINE__,  ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
```

---

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if (ind != 1) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

strncpy (str1, "keep it simple");
strncpy (str2, "keEp it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 2) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

strncpy (str1, "keep it simple");
rc = strfirstdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strncpy (str1, "keep it simple");
strncpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
printf("\n\nDone \n");
*/-----------------------------------------------*/

#if 0
static void test_strfirstsame_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t ind;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf("strfirstsame_s TESTING\n");

    rc = strfirstsame_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strfirstsame_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
*/-----------------------------------------------*/

    rc = strfirstsame_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
}
/*---------------------------------------------*/

rc = strfirstsame_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------*/

rc = strfirstsame_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------*/

rc = strfirstsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------*/

str1[0] = '0';
str2[0] = '0';

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

/*---------------------------------------------*/

strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
printf("%s %d Error rc=%d\n", __FUNCTION__, __LINE__, rc);
}

if (ind != 1) {
    printf("%s %d Error ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %d ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEEP it simple");
strcpy (str2, "keep it simple");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %d Error rc=%d\n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %d Error ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %d ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLe");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %d Error rc=%d\n", __FUNCTION__, __LINE__, rc);
}

if (ind != 13) {
    printf("%s %d Error ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %d ind=%d rc=%d\n", __FUNCTION__, __LINE__, ind, rc);
__FUNCTION__, __LINE__, ind, rc);
/*---------------------------------------------*/
strcpy (str1, "keep it simple");
/* same string for src and dest */
rc = strfirstsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error ind=%d  rc=%d 
",
      __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------*/
strcpy (str1, "KEEP it simple");
strcpy (str2, "keep it simple");
/* unterminated */
rc = strfirstsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d 
",
      __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");
/* unterminated */
rc = strfirstsame_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d 
",
      __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d 
",
      __FUNCTION__, __LINE__,  ind, rc);
}
static void test_strisalphanumeric_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    /*--------------------------*/
    printf("strisalphanumeric_s TESTING\n");

    len = 5;
    rc = strisalphanumeric_s(NULL, len);
    if (rc != FALSE) {
        printf("\%s \%u   Error rc=\%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------*/
    printf("strisalphanumeric_s TESTING\n");

    len = 0;
    rc = strisalphanumeric_s("test", len);
    if (rc != FALSE) {
        printf("\%s \%u   Error rc=\%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------*/
    printf("strisalphanumeric_s TESTING\n");

    len = 99999;
    rc = strisalphanumeric_s("test", len);
    if (rc != FALSE) {
        printf("\%s \%u   Error rc=\%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------*/
    printf("strisalphanumeric_s TESTING\n");

    rc = strisalphanumeric_s("", LEN);
    if (rc != FALSE) {
printf("%s %u   Error rc=%u \n", 
    __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

strcpy(str, "123456789");
len = 4;

/* unterminated */
rc = strisalnum_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

strcpy(str, "N");

/* too short */
rc = strisalnum_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

strcpy(str, "N");
len = strlen(str);
rc = strisalnum_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

strcpy(str, "NowISTHETimE4us");
len = strlen(str);
rc = strisalnum_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__,  rc );
}
/*-----------------------------------------------*/
strncpy(str, "qq21ego");
len = strlen(str);

rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strncpy(str, "1234");
str[2] = 132; /* special char */
len = strlen(str);

/* special char embedded */
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strncpy(str, "!@#$%^&*(){}\[\]:;"'?/.>,<");
len = strlen(str);

rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strisascii_s(void)
{  
    int LEN=128;

    boolean_t rc;

    /*-----------------------------------------------*/
uint32_t len;
char str[LEN];

/*------------------------------------------*/
printf("strisascii_s TESTING\n");

len = 5;
rc = strisascii_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
len = 0;
rc = strisascii_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
len = 99999;
rc = strisascii_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
/* empty string */
rc = strisascii_s("", 2);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
strcpy (str, "ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = strisascii_s(str, 2);
if (rc != FALSE) {
strcpy (str, "N");
len = strlen(str);

/* len too short */
rc = strisascii_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "N");
len = strlen(str);

rc = strisascii_s(str, 2);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "NowISTHETimE");
len = strlen(str);

rc = strisascii_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "qq21ego");
len = strlen(str);

rc = strisascii_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
strcpy (str, "1234");
str[2] = 132; /* special char */
len = strlen(str);

/* special char embedded */
rc = strisascii_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
printf("\n\nDone \n\n");
}

static void test_strisdigit_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    /*-----------------------------------------------*/
    printf("strisdigit_s TESTING\n");

    len = 5;
    rc = strisdigit_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
    len = 0;
    rc = strisdigit_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
len = 99999;
rc = strisdigit_s("1234", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 9;
rc = strisdigit_s("", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "123456789");
len = 4;

;/* unterminated */
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "1");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "12");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
__FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/
strcpy(str, "1abcd");
len = strlen(str);

rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strishex_s(void)
{
    int LEN=128;
    boolean_t rc;
    uint32_t len;
    char   str[LEN];

    /*-----------------------------------------------*/
    printf("strishex_s TESTING\n");

    len = 5;
    rc = strishex_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
    str[0] = '\0';
    rc = strishex_s(str, 5);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
len = 0;
rc = strishex_s("1234", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

/*-----------------------------*/

len = 99999;
rc = strishex_s("1234", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

/*-----------------------------*/

len = 9;
rc = strishex_s("", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

/*-----------------------------*/

strcpy (str, "123456789");
len = 6;

/* unterminated */
rc = strishex_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

/*-----------------------------*/

strcpy (str, "1");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}
strcpy (str, "12");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %lu Error rc=%lu \n",
        __FUNCTION__, __LINE__, rc);
}
strcpy (str, "1Af");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %lu Error rc=%lu \n",
        __FUNCTION__, __LINE__, rc);
}
strcpy (str, "FF");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %lu Error rc=%lu \n",
        __FUNCTION__, __LINE__, rc);
}
strcpy (str, "labzd");
len = strlen(str);

/* non hex char in string */
rc = strishex_s(str, len);
if (rc != FALSE) {
    printf("%s %lu Error rc=%lu \n",
        __FUNCTION__, __LINE__, rc);
}
static void test_strislowercase_s(void)
{
    int LEN=128;

    boolean_t rc;

    uint32_t len;
    char str[LEN];

    /*-----------------------------------------------*/
    printf("strislowercase_s TESTING\n");

    len = 5;
    rc = strislowercase_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
    }
    /*-----------------------------------------------*/

    len = 99999;
    rc = strislowercase_s("test", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
    }
    /*-----------------------------------------------*/

    len = 0;
    rc = strislowercase_s("test", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
    }
    /*-----------------------------------------------*/

    str[0] = '\0';

    printf("\n\nDone \n");
}
rc = strslowercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "qqweqeqeqeqq");
len = 3;

rc = strslowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "qqweqeqeqeqq");
len = strlen(str);

rc = strslowercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "qqWe go");
len = strlen(str);

rc = strslowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "1234");
len = strlen(str);

rc = strslowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
static void test_strismixed_s(void)
{
    int LEN=128;

    boolean_t rc;
    rsize_t len;
    char str[LEN];

    /*---------------------------------------------*/
    printf("strismixed_s TESTING\n");
    len = 5;
    rc = strismixedcase_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/
    len = 0;
    rc = strismixedcase_s("test", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/
    len = RSIZE_MAX_STR+1;
    rc = strismixedcase_s("test", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/
    len = 9;
    }
rc = strismixedcase_s("", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "AaBbCcDdEeFf");
len = 5;
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "N");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "NowISTHETimE");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "qq21ego");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
strcpy(str, "1234");
len = strlen(str);
/*-----------------------------*/
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/

printf("Done \n");
}

static void test_strispassword_s(void)
{
    int LEN=24;
    boolean_t rc;
    uint32_t len;
    char str[LEN];
    printf("strispassword_s TESTING\n");
    rc = strispassword_s(NULL, LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    }
    rc = strispassword_s("", LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    }
    rc = strispassword_s("Test4You&", 0);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    }
}
__FUNCTION__, __LINE__, rc );
}

/*--------------------------*/
rc = strispassword_s("Test4You&", 9);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------*/

rc = strispassword_s("", 9);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------*/

strcpy (str, "Test4You*123");
len = 8;
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------*/

strcpy (str, "Test4You*123");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------*/

strcpy (str, "Test4You*Test4You*Test4You*");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
printf("%s %u   Error rc=%u \
", __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

strcpy (str, "Eest!22/");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \
", __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

strcpy (str, "pa$$W0rD");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \
", __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

strcpy (str, "Test");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \
", __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strisuppercase_s(void)
{
    int LEN=128;
    boolean_t rc;
}
uint32_t len;
char str[LEN];

/*--------------------------------------------------*/
printf("strisuppercase TESTING\n");

len = 5;
rc = strisuppercase_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/

len = 99999;
rc = strisuppercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/

len = 0;
rc = strisuppercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/

str[0] = '0';
rc = strisuppercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIGHIJ");
len = 7;
rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc );
}
```c
strcpy (str, "ABCDEFGHIGHIJ");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "qqWe go");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "1234");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "!@#$%^&*()".toggle_color(3));
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
```

---

Open Source Used in IOS XR Software 7.3.3 7332
static void test_strlastchar_s(void)
{
    int LEN=128;

    errno_t rc;

    char *last;
    char str1[LEN];

    /*---------------------------------------------*/
    printf("strlastchar_s TESTING\n");

    rc = strlastchar_s(NULL, LEN, 'a', &last);
    if (rc != ESNULLP) {
        printf("%s %u  Error  str1=%p  last=%p  rc=%d \n",
                __FUNCTION__, __LINE__,  str1, last, rc);
    }

    /*---------------------------------------------*/
    rc = strlastchar_s(str1, LEN, 'a', NULL);
    if (rc != ESNULLP) {
        printf("%s %u  Error  str1=%p  last=%p  rc=%d \n",
                __FUNCTION__, __LINE__,  str1, last, rc);
    }

    /*---------------------------------------------*/
    rc = strlastchar_s(str1, 0, 'a', &last);
    if (rc != ESZEROL) {
        printf("%s %u  Error  str1=%p  last=%p  rc=%d \n",
                __FUNCTION__, __LINE__,  str1, last, rc);
    }

    /*---------------------------------------------*/
    rc = strlastchar_s(str1, RSIZE_MAX_STR+1, 'a', &last);
    if (rc != ESLEMAX) {
        printf("%s %u  Error  str1=%p  last=%p  rc=%d \n",
                __FUNCTION__, __LINE__,  str1, last, rc);
    }
}
str1[0] = '\0';

rc = strlastchar_s(str1, LEN, 'a', &last);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p last=%p rc=%d \n", __FUNCTION__, __LINE__, str1, last, rc);
}

strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, 5, 'z', &last);
if (rc != ESUNTERM) {
    printf("%s %u Error str1=%p last=%p rc=%d \n", __FUNCTION__, __LINE__, str1, last, rc);
}

strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, LEN, 'z', &last);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p last=%p rc=%d \n", __FUNCTION__, __LINE__, str1, last, rc);
}

//    printf("%s %u  str1=%p  last=%p   rc=%d \n", __FUNCTION__, __LINE__, str1, last, rc);

strcpy (str1, "kEep it simple");
rc = strlastchar_s(str1, LEN, 'E', &last);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (last != &str1[1]) {
    printf("%s %u Error str1=%p last=%p rc=%d \n", __FUNCTION__, __LINE__, str1, last, rc);
}
static void test_strlastchar_s(void)
{
    int LEN = 128;

    errno_t rc;
    rsize_t ind;

    char   str1[LEN];
    char   str2[LEN];

    rc = strlastchar_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    strcpy (str1, "kEep it Simple");

    rc = strlastchar_s(str1, LEN, 'S', &last);
    if (rc != EOK) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    if (last != &str1[8]) {
        printf("%s %u  Error  str1=%p  last=%p  rc=%d \n",
                __FUNCTION__, __LINE__, str1, last, rc);
    }

    printf("\n
Done \n");
}

static void test_strlastdiff_s(void)
{
    int LEN = 128;

    errno_t rc;
    rsize_t ind;

    char   str1[LEN];
    char   str2[LEN];

    rc = strlastdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    printf("strlastdiff TESTING\n");

    rc = strlastdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u str1=%p  last=%p  rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
*/

    printf("\n\nDone \n");
}
/*-----------------------------------------------*/

rc = strlastdiff_s(str1, LEN, NULL, &ind);
if (rc ! = ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/

rc = strlastdiff_s(str1, LEN, str2, NULL);
if (rc ! = ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/

rc = strlastdiff_s(str1, 0, str2, &ind);
if (rc ! = ESNZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/

rc = strlastdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*-----------------------------------------------*/

str1[0] = '\0';
str2[0] = '\0';
rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n",
        __FUNCTION__, __LINE__, ind, rc);
}
strcpy (str1, "Keep iT simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 6) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 1) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "keep it siMple");
strcpy (str2, "keEp it Simple");
rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 10) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it simple");
rc = strlastdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}
#if 0
static void test_strlastsame_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t ind;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf("strlastsame_s TESTING\n");
    rc = strlastsame_s(NULL, LEN, str2, &ind);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strlastsame_s(str1, LEN, NULL, &ind);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strlastsame_s(str1, LEN, str2, NULL);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strlastsame_s(str1, 0, str2, &ind);
    if (rc != ESZEROL) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strlastsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
}
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");
strcpy (str2, "keep_IT_SIMPLISTIC");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 3) {
    printf("%s %u  Error ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %u  ind=%d   rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEEP_IT_SIMPLE");
strcpy (str2, "keep it simplistic");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 3) {
    printf("%s %u  Error ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %u  ind=%d   rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEEP_IT_SIMPLE");
strcpy (str2, "keep it simplistic");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
__FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "keeP_IT_SIMPLe");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");

/* same string for src and dest */
rc = strlastsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "KEEP it simple");
strcpy(str2, "keep it simple");

/* unterminated */
rc = strlastsame_s(str1, 1, str2, &ind);
if(rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",  
           __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "KEEP_IT_SIMPLE");

/* unterminated */
rc = strlastsame_s(str1, 5, str2, &ind);
if(rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",  
           __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "KEEP_IT_SIMPLE");
rc = strlastsame_s(str1, LEN, str2, &ind);
if(rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d \n",  
           __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}
#endif

static void test_strljustify_s(void)
{
    int LEN=128;
    errno_t rc;
    int ind;
    
    uint32_t len;
    char  str[LEN];
/*-----------------------------*/
printf("strljustify_s TESTING\n");

len = 5;
rc = strljustify_s(NULL, len);
if (rc != ESNULLP) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 0;
rc = strljustify_s("test", len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99999;
rc = strljustify_s("test", len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* empty string */
rc = strljustify_s("", 12);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

// if (str[0] != '\0') { // wonder why str[0] should be \0
//     printf("%s %u   Error -%s- \n",
//            __FUNCTION__, __LINE__, str);
// }

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJK");
len = 2;
/* unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
        __FUNCTION__, __LINE__, str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
        __FUNCTION__, __LINE__, str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "A");
len = 1;

/* a one char string will be emptied - str[0]=='\0' */
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
        __FUNCTION__, __LINE__, str);
}
/*-------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;

/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;

/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABC");
len = strlen(str);

/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "ABC");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy(str, "   B ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "B");
if (ind != 0) {
    printf("%s %u   Error -%s- ind=%d 
", __FUNCTION__, __LINE__, str, ind);
}

strzero_s(str, LEN);
strcpy(str, "   B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "C");

if (ind != 0) {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*--------------------------------------------------*/
strzero_s(str, LEN);
strncpy(str, "NowISTHETime 
"),
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "NowISTHETime 
");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*-----------------------------------------------*/
strzero_s(str, LEN);
strncpy (str, "qq21ego 
");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*-----------------------------------------------*/
strzero_s(str, LEN);
strncpy (str, "   1234 
");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

//printf("%d   --%s-- \n", __LINE__, str);

/*-----------------------------------------------*/
strzero_s(str, LEN);
strncpy (str, "    
");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

//printf("%d   --%s-- \n", __LINE__, str);
/
*
.................................*/

printf("\n\nDone \n");
}

static void test_strncat_s(void)
{
    int LEN=128;
    errno_t rc;
    int32_t ind;
    char str1[LEN];
    char str2[LEN];
/
*
.................................*/

printf("strncat_s TESTING\n");

    rc = strncat_s(NULL, LEN, str2, LEN);
    if (rc != ENULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                        __FUNCTION__, __LINE__, rc);
    }
/
*
.................................*/

    rc = strncat_s(str1, LEN, NULL, LEN);
    if (rc != ENULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                        __FUNCTION__, __LINE__, rc);
    }
/
*
.................................*/

    rc = strncat_s(str1, 0, str2, LEN);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n",
                        __FUNCTION__, __LINE__, rc);
    }
/
*.................................*/
rc = strncat_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/
/*----------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 1, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null  \n", __FUNCTION__, __LINE__);
}
/*----------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 2, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null  \n", __FUNCTION__, __LINE__);
}
/*----------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 50, str2, LEN);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
ind = strcmp(str1, "aaaaaaaaakeep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__,  str1);
}
/*--------------------------------------------------
/*--------------------------------------------------
/* TR example */
strcpy(str1, "good");
strcpy(str2, "bye");
rc = strncat_s(str1, 100, str2, 1000);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str1, "goodbye");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__,  str1);
}
/*--------------------------------------------------
/*--------------------------------------------------
/* TR example */
strcpy(str1, "hello");
rc = strncat_s(str1, 6, ",", 1);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str1, "hello");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__,  str1);
}
/*--------------------------------------------------
/*--------------------------------------------------
/* TR example */
strcpy(str1, "hello");

rc = strncat_s(str1, 6, "X", 2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null  \n", __FUNCTION__, __LINE__);
}

/*--------------------------------------------------*/
/* TR example */
/*--------------------------------------------------*/

strcpy(str1, "abc");

rc = strncat_s(str1, 7, "defghijklmn", 3);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "abcdef");
if (ind != 0) {
    debug_printf("%s %u  Error -%s- \n", __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strncpy_s(void)
{
    int LEN=128;

    errno_t rc;
    rsize_t nlen;

    int32_t ind;
    char str1[LEN];
    char str2[LEN];
    char dest[LEN];

    printf("strncpy_s TESTING\n");
}
nlen = 5;
rc = strncpy_s(NULL, LEN, str2, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

nlen = 5;
rc = strncpy_s(str1, 5, NULL, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<5; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
} */
/*
*/

nlen = 5;
rc = strncpy_s(str1, 0, str2, nlen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------------------------*/
rc = strncpy_s(str1, (RSIZE_MAX_STR+1), str2, nlen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';

rc = strncpy_s(str1, 5, str2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<5; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u Error rc=%u \n",
                       __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------*/
#if 1
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

rc = strncpy_s(str1, 5, str2, (RSIZE_MAX_STR+1));
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
#endif
/*--------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';
nlen = 5;

rc = strncpy_s(&str1[0], LEN/2, &str2[0], nlen);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<LEN/2; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u Error rc=%u \n",
                       __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaa");
nlen = 5;

/* test overlap */
rc = strncpy_s(str1, LEN, str1, nlen);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<LEN; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaa");
nlen = 18;

rc = strncpy_s(&str1[0], LEN, &str1[5], nlen);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<LEN; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------*/
strcpy(str1, "keep it simple");
str2[0] = '0';
nlen = 10;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/
for (i=0; i<LEN; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");

nlen = 20;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qweqeqeqeq");
strcpy(str2, "keep it simple");

nlen = 32;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strncpy_s(str1, 1, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}
/*----------------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strncpy_s(str1, 2, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}
/*----------------------------------------------------------*/
/* TR example */
strcpy(dest, "
          ");
strcpy(str1, "hello");

rc = strncpy_s(dest, 6, str1, 100);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(dest, str1);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}
strcpy(dest, "");
strcpy(str2, "goodbye");

rc = strncpy_s(dest, 5, str2, 7);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc );
}

strcpy(dest, "");
strcpy(str2, "goodbye");

rc = strncpy_s(dest, 5, str2, 4);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc );
}

/* be sure the results are the same as strcmp */
ind = strcmp(dest, "good");
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
                  __FUNCTION__, __LINE__, str1, rc );
}

strcpy(dest, "");
strcpy(str2, "good");

/*   strnlen("good") < 5   */
rc = strncpy_s(dest, 5, str2, 8);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc );
}

/* be sure the results are the same as strcmp */
ind = strcmp(dest, "good");
if (ind != 0) {

debug_printf("%s %u -%s- Error rc=%u \n",
    __FUNCTION__, __LINE__, str1, rc);
    
/*---------------------------------------------*/

strcpy(str1, "qq12345weqeqeqq");
strcpy(str2, "it");
nlen = 10;
rc = strncpy_s(str1, 10, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}

/*---------------------------------------------*/

// for (i=0; i<10; i++) {
//    printf("str1[%i] = %d \n", i, str1[i]);
// }

/*---------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strnlen_s(void)
{
    rsize_t len;
    rsize_t std_len;
    rsize_t max_len;

    printf("strnlen_s TESTING\n");

    /*---------------------------------------------*/

    max_len = 3;
    len = strnlen_s(NULL, max_len);
    if (len != 0) {
        printf("%s %u   Len=%u \n",
            __FUNCTION__, __LINE__, len);
    }

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max_len = 0;
len = strnlen_s("test", max_len);
if (len != 0) {
    printf("%s %u   Len=%u\n",
            __FUNCTION__, __LINE__, len);
}

max_len = RSIZE_MAX_STR+1;
len = strnlen_s("test", max_len);
if (len != 0) {
    printf("%s %u   Len=%u\n",
            __FUNCTION__, __LINE__, len);
}

std_len = strlen("\n");
max_len = RSIZE_MAX_STR;

len = strnlen_s("\n", max_len);
if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
}

std_len = strlen("t");
max_len = RSIZE_MAX_STR;

len = strnlen_s("t", max_len);
if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
}

std_len = strlen("to");
max_len = RSIZE_MAX_STR;
len = strnlen_s("to", max_len);

if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n",
           __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/

std_len = strlen("testing");
max_len = RSIZE_MAX_STR;

len = strnlen_s("testing", max_len);

if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n",
           __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/

max_len = 1;
len = strnlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n",
           __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/

max_len = 2;
len = strnlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n",
           __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/

max_len = 3;
len = strnlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n",
           __FUNCTION__, __LINE__, len);
}
static void test_strpbrk_s(void)
{
int LEN=128;

errno_t rc;

char *first;
char *std_first;

char   str1[LEN];
char   str2[LEN];

/*---------------------------------------------*/
printf("strpbrk_s TESTING\n");

rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------*/
rc = strpbrk_s(NULL, LEN, str2, LEN, &first);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------*/
rc = strpbrk_s(str1, LEN, NULL, LEN, &first);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, 0, str2, LEN, &first);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, LEN, str2, 0, &first);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, RSIZE_MAX_STR+1, str2, LEN, &first);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &first);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
/* not to be found */
rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);}
if (first != 0) {
    printf("%s %u  Error  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
        __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "1234");

;/* this will be unterminated */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
        __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "ke");

;/* this will be OK as the "ke" chars will be found w/in the 2 chars */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u  Error  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
        __FUNCTION__, __LINE__,  first, std_first, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "123456");

/* src will be unterminated */
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (first != 0) {
    printf("%s %u  Error  first=%p  rc=%d \n",
           __FUNCTION__, __LINE__, first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "");
rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
           __FUNCTION__, __LINE__, first, std_first, rc);
    //    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
    //                     __FUNCTION__, __LINE__,  first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "k");
rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "ke");
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "hip");
rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "ke");
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "hip");
rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
//                      __FUNCTION__, __LINE__, first, std_first, rc);

/*-----------------------------------------------*/

strcpy (str1, "keep it simply");
strcpy (str2, "123y");

rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n", __FUNCTION__, __LINE__, first, std_first, rc);
}

//          printf("%s %u  first=%p  std_first=%p  rc=%d \n", 
//                         __FUNCTION__, __LINE__,  first, std_first, rc);

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strprefix_s(void)
{
int LEN=128;

errno_t rc;

rsize_t len;

char str1[LEN];
char str2[LEN];

printf("strprefix_s TESTING\n");
/*-----------------------------------------------*/

rc = strprefix_s(NULL, LEN, str2);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

//          printf("%s %u  Error rc=%d \n", 
//                         __FUNCTION__, __LINE__,  rc);

/*-----------------------------------------------*/


rc = strprefix_s(str1, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

rc = strprefix_s(str1, 0, str2);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

rc = strprefix_s(str1, RSIZE_MAX_STR+1, str2);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

str1[0] = '0';
str2[0] = '0';

rc = strprefix_s(str1, LEN, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it simple");
strcpy(str2, "keep");

rc = strprefix_s(str1, 55, str2);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

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strcpy(str1, "keep it simple");
strcpy(str2, "kerp");

rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFD) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "ke");
strcpy(str2, "kerp");

rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFD) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keeppp");

rc = strprefix_s(str1, 4, str2);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keeeep");

rc = strprefix_s(str1, 4, str2);
if (rc != ESNOTFD) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keeeep");

rc = strprefix_s(str1, 4, str2);
if (rc != ESNOTFD) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, ":");

rc = strprefix_s(str1, 4, ":");
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keep it simple and very long");
len = strlen(str1);
rc = strprefix_s(str1, len, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keep it simple");
len = strlen(str1);
rc = strprefix_s(str1, len, str2);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strremovews_s(void)
{
int LEN=128;
errno_t rc;
int ind;
uint32_t len;
char str[LEN];
printf("strremovews_s TESTING\n");

len = 5;
rc = strremovews_s(NULL, len);
if (rc != ENULLP) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/

len = 0;
strcpy(str, "test");
rc = strremovews_s(str, len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/

len = 99;
strcpy(str, "test");
rc = strremovews_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/

/* empty string */
strcpy(str, "");
rc = strremovews_s(str, 12);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/

/*if (str[0] != \0) { \strl should not be null here
    printf("%s %u   Error -%s- \n", __FUNCTION__, __LINE__, str);
}

/*------------------------------------------------__*/

strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJKLMNOPQRSTUVWXYZ");
len = 2;

/* unterminated */
rc = stremovews_s (str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "      ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = stremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "A");
len = 1;

/* a one char string will be emptied - str[0]==\0 */
rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",

strzero_s(str, LEN);
strcpy(str, "ABC");
len = 2;

/* this will be unterminated */
rc = stremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__,  str);
}

strzero_s(str, LEN);
strcpy(str, "   B");
len = strlen(str);
rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

ind = strcmp(str, "B");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__,  str);
}

strzero_s(str, LEN);
strcpy(str, " C ");
len = strlen(str);
rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
ind = strcmp(str, "C");
if (ind != 0) {
    printf("%s %u Error -%s- \n", __FUNCTION__, __LINE__, str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy(str, "   NowISTHETimE       ");
len = strlen(str);
rc = stremovesws_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, " qq21ego ");
len = strlen(str);
rc = stremovesws_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "   1234   ");
len = strlen(str);
rc = stremovesws_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
static void test_strspn_s(void)
{

    int LEN=128;

   (errno_t rc;

    rsize_t count;
    int32_t std_count;

    char str1[LEN];
    char str2[LEN];

    printf("test_strspn_s TESTING\n");

    rc = strspn_s(NULL, LEN, str2, LEN, &count);
    if (rc != ENUMLPP) {
        printf("%s %u  Error rc=\d %\n",
               __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u  Error rc=\d %\n",
               __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u  Error rc=\d %\n",
               __FUNCTION__, __LINE__, rc);

    rc = strspn_s(str1, LEN, NULL, LEN, &count);
    if (rc != ENUMLPP) {
        printf("%s %u  Error rc=\d %\n",
               __FUNCTION__, __LINE__, rc);
    }

    rc = strspn_s(str1, LEN, str2, LEN, NULL);
    if (rc != ENUMLPP) {
        printf("%s %u  Error rc=\d %\n",
               __FUNCTION__, __LINE__, rc);
    }

    rc = strspn_s(str1, 0, str2, LEN, &count);
if (rc != ESZEROL) {
  printf("%s %u  Error rc=%d \n",
         __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

rc = strspn_s(str1, LEN, str2, 0, &count);
if (rc != ESZEROL) {
  printf("%s %u  Error rc=%d \n",
         __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

rc = strspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {
  printf("%s %u  Error rc=%d \n",
         __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

rc = strspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
if (rc != ESLEMAX) {
  printf("%s %u  Error rc=%d \n",
         __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

str1[0] = '\0';
str2[0] = '\0';
rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
  printf("%s %u  Error rc=%d \n",
         __FUNCTION__, __LINE__, rc);
}
if (count != 0) {
  printf("%s %u  Error  count=%d rc=%d \n",
         __FUNCTION__, __LINE__, count, rc);
}
std_count = strspn(str1, str2);
if (count != std_count) {
  printf("%s %u  count=%d  std_count=%d  rc=%d \n",
         __FUNCTION__, __LINE__, count, std_count, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, 2, str2, LEN, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/* since rc is ESUNTERM, don't expect count to be correct
   std_count = strspn(str1, str2);
   if (count != std_count) {
        printf("%s %u  count=%d std_count=%d rc=%d \n",
                __FUNCTION__, __LINE__, count, std_count, rc);
   }
*/
/*--------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "k");

rc = strspn_s(str1, LEN, str2, 1, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d std_count=%d rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "ke");

rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "notincluded");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "1234567890");
rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "notincluded");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "1234567890");
strcpy (str2, "notincluded");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  count, std_count, rc);
}
static void test_strstr_s(void)
{
    int LEN=128;

    errno_t rc;

    char *sub;
    char *std_sub;

    rsize_t len1;
    rsize_t len2;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf("strstr_s TESTING\n");

    rc = strstr_s(NULL, LEN, str2, LEN, &sub);
    if (rc != ENSNULLP) {
        printf("%s %u  Error rc=%d \n", 
             __FUNCTION__, __LINE__, rc);
    } /*-----------------------------------------------*/

    rc = strstr_s(str1, LEN, NULL, LEN, &sub);
    if (rc != ENSNULLP) {
        printf("%s %u  Error rc=%d \n", 
             __FUNCTION__, __LINE__, rc);
    } /*-----------------------------------------------*/

    rc = strstr_s(str1, LEN, str2, LEN, NULL);
}
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = strstr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = strstr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = strstr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it all together");
*str2 = '\0';

rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "kee");

/* substring at beginning */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[0]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "eep it");

/* substring in the middle - left */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "ethe");

/* substring in the middle - right */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
__FUNCTION__, __LINE__, rc);

if (sub != &str1[15]) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "er");

len1 = strlen(str1);
len2 = strlen(str2);

/* substring at the end */
rc = strstr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[18]) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strstr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strstr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "1234");

len1 = strlen(str1);

/* str1 is unterminated */
rc = strstr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str2 is unterminated */
rc = strstr_s(str1, LEN, str2, 2, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
std_sub = strstr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

printf("\n\nDone \n");
}

static void test_strtok_s(void)
{
    int LEN=128;

erro_t rc = EOK;

    char *p2str;
    char *p2tok;

    rsize_t len;
    char    str1[LEN];
    char    str2[LEN];

    printf("strtok_s TESTING\n");
    /*----------------------------------------*/
p2tok = strtok_s(str1, NULL, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

len = 0;
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

len = RSIZE_MAX_STR + 1;
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

len = 0;
p2tok = strtok_s(str1, &len, NULL, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

p2tok = strtok_s(str1, &len, str2, NULL);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);
/* no token test */
strcpy(str1, "aaaaaaaa");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}

strcpy(str1, "jklmnopqrst");
len = strlen(str1) - 2;             /* cheat on len */
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
if (p2tok != NULL) {
    printf("token -%s- -%s- \n", p2tok, p2str);
}
/*--------------------------------------------------
//printf("test: %u \n", __LINE__);
strcpy(str1, "akkmnopqrst");
len = strlen(str1) - 2;             /* cheat on len */
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
if (p2tok != NULL) {
    printf("token -%s- -%s- \n", p2tok, p2str);
}
/*--------------------------------------------------
//printf("test: %u \n", __LINE__);
strcpy(str1, "aaamnopqrst");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s- -%s- \n", p2tok, p2str);
strcpy(str1, "aaamnopqrstfedcba");
len = strlen(str1);
strcpy(str2, "fedcba");

p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s-  remaining -%s-  
", __FUNCTION__, __LINE__,  p2tok, p2str);
}
if (strcmp(p2tok, "mnopqrst")) {
    printf("%s %u token -%s-  remaining -%s-  
", __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s-  -%s- len=%d 
", p2tok, p2str, (int)len );

p2tok = strtok_s(p2str, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s-  remaining -%s-  
", __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s-  -%s- len=%d 
", p2tok, p2str, (int)len );

strcpy(str1, "?a???b,,,#c");
len = strlen(str1);
strcpy(str2, "?");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (strcmp(p2tok, "a") ) {
    printf("%s %u token -%s-  -%s- len=%d 
", __FUNCTION__, __LINE__,  p2tok, p2str);
}
strcpy(str1, "?a???b,,,#c");
len = strlen(str1);
strcpy(str2, ","); /* change the tokenizer string */

p2tok = strtok_s(NULL, &len, str2, &p2str);
if (strcmp(p2tok, "??b") ) {
    printf("%s %u token -%s-  -%s- len=%d 
", __FUNCTION__, __LINE__, p2tok, p2str, (int)len );
}
    printf("token -%s-  -%s- len=%d 
", p2tok, p2str, (int)len );

strcpy(str1, ",,0,1,23,456,789,a,b,");
len = strlen(str1);
strcpy(str2, ","); /* change the tokenizer string */

printf("String to tokenize str1 = "%s"  len = %u
", str1, len);
printf("String of delimiters str2 = "%s" 
", str2);
p2str = str1;
p2tok = str1;
while (p2tok && len) {
    printf(" p2tok = strtok_s(p2str, &len, str2, &p2str); \n" );
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf(" token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}
    printf("token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

strcpy(str1, ",.*;one,two;three,;four*.*.five-six***");
len = strlen(str1);

strcpy(str2, ",;.*\n");

printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\"\n", str2);

p2tok = strtok_s(str1, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

/* len is zero at this point */
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

strcpy(str1, ",.*;one,two;three;four*.five-six***");

len = strlen(str1);

strcpy(str2, ",;.*\n");
printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}

/*--------------------------------------------------*/
strcpy(str1, ",.*;one,two;three,:four::*;five-six***");
len = strlen(str1) - 1;   /** back off the null **/
strcpy(str2, ",;.*");
printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}

/*--------------------------------------------------*/
strcpy(str1, ",.*;one,two;three,:four::*;five-six***");
len = strlen(str1) - 15;  /** back off a few! **/
strcpy(str2, ",;.*");
printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf("  token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );
}

/*--------------------------------------------------*/
printf("\n\nDone \n");
*/--------------------------------------------------*/

static void test_strtolowercase_s(void)
{
    int LEN=128;

erro_t rc;

    rsize_t len;
    char str[LEN];

    printf("tolowercase_s TESTING\n");

    /*--------------------------------------------------*/
    len = 5;
    rc = strtolowercase_s(NULL, len);
    if (rc != ESNULLP) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------------------------------*/
    len = 0;
    strcpy(str, "test");
    rc = strtolowercase_s(str, len);
    if (rc != ESZEROL) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------------------------------*/

    ;
}
len = 99;
strcpy(str, "test");
rc = strtolowercase_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "N");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "NOWISTHETIME");
rc = strtolowercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "NOWISTHETIME");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

if (strcmp(str, "nowisthetime") ) {
    printf("%s %u   Error -%s- \n", 
            __FUNCTION__, __LINE__, str);
}
strcpy(str, "qqero");
len = strlen(str);

rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

if (strcmp(str, "qqero") ) {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

strcpy(str, "1234");
len = strlen(str);

rc = strtolowercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}

static void test_strtouppercase_s(void)
{
int LEN=128;

errno_t rc;

rszsize_t len;
char str[LEN];

printf("strtouppercase_s TESTING\n");

len = 5;
rc = strtouppercase_s(NULL, len);
if (rc != ESNULLP) {
len = 0;
strcpy(str, "test");
rc = strtouppercase_s(str, len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99;
strcpy(str, "test");
rc = strtouppercase_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "n");
len = strlen(str);
rc = strtouppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "nowisthetime");
rc = strtouppercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "nowisthetime");
len = strlen(str);

rc = strouppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

if (strcmp(str, "NOWISTHETIME") ) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/
strcpy (str, "qqeRo");
len = strlen(str);

rc = strouppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

if (strcmp(str, "QQERO") ) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/
strcpy (str, "1234");
len = strlen(str);

rc = strouppercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strzero_s(void)
{


int LEN=128;
errno_t rc;
rsize_t max_len;
char str1[LEN];
uint32_t i;

printf("strzero_s TESTING\n");

/*--------------------------------------------------*/

rc = strzero_s(NULL, 5);
if (rc != ESNULLP) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

rc = strzero_s(str1, 0);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

rc = strzero_s(str1, RSIZE_MAX_STR+1);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

max_len = 1;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
    }
}
max_len = 2;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}

max_len = 3;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}

max_len = LEN;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
/*------------------------------------------------*/

printf("\n\nDone \n");
}

void test_void (void)
{

%

model digraph
! Describe the model. You have structured your test as a
! directed graph. Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! is "vdag". This would generate testcases representing various
! acyclic paths leading from the start node. These tests cover all nodes.

PENDAL Urli"D Rag
! Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! acyclic paths leading from the start node. These tests cover all nodes.
! This does not guarantee that all the edges are covered.
! If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic
! Graph) then you should use this keyword.
!

% model digraph vdag
! There are three keywords. They are
! start node <nodeIdentifier> - Specify the start node in the model
! node <nodeIdentifier>:  - Begining of a node description.
! -><nodeIdentifier>:   - Begining of an edge description. This describes an
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,
! These identifiers are used during runtime to present execution times
! and other data.
You can specify parameters for your unit test as follows:
parameters:(uint interface, char* hostname="abc", uint subInterface=1)
This should come before the line specifying the start node.
The parameters can be used in the code for nodes/edges. The values
for parameters are received via CLI or as a result of direct invocation of
the generated function. Parameters can be of type 'uint'
or 'char*'. If values for parameters are provided on CLI defaults are used.
You should provide default values. If default values are not specified
then the tool would assign default values. If the type is "uint" the
default value is 0. Else(type char*) the default value is "".
During automation the default values are used. Use descriptive names
for parameters.
parameters: (uint testcase = 1)
start node StartNode
You can place initialization code that needs to be executed
prior to entering the start node here.
node StartNode:
int i=0;

for (i=0; i<MaxTestCases; i++)
testFuncs[i] = &test_void;

// test case index starts at 1
// memory related functions
testFuncs[1] = &test_memcmp_s;
testFuncs[2] = &test_memcpy_s;
testFuncs[3] = &test_memmove_s;
testFuncs[4] = &test_memzero_s;
// string related functions

testFuncs[10] = &test_strcasecmp_s;
testFuncs[12] = &test_strcat_s;
testFuncs[13] = &test_strcmp_s;
testFuncs[14] = &test_strcmpfld_s;
testFuncs[15] = &test_strcpy_s;
testFuncs[16] = &test_strcpyfld_s;
testFuncs[17] = &test_strcpyfldin_s;
testFuncs[18] = &test_strcpyfldout_s;
testFuncs[19] = &test_strcspn_s;
testFuncs[20] = &test_strfirstchar_s;
testFuncs[21] = &test_strfirstdiff_s;
//testFuncs[22] = &test_strfirstsame_s;
testFuncs[23] = &test_strisalphanumeric_s;
testFuncs[24] = &test_strisascii_s;
testFuncs[25] = &test_strisdigit_s;
testFuncs[26] = &test_strishex_s;
testFuncs[27] = &test_strislowercase_s;
testFuncs[28] = &test_strismixed_s;
testFuncs[29] = &test_strispassword_s;
testFuncs[30] = &test_strisuppercase_s;
testFuncs[31] = &test_strlastchar_s;
testFuncs[32] = &test_strlastdiff_s;
//testFuncs[33] = &test_strlastsame_s;
testFuncs[34] = &test_strljustify_s;
testFuncs[35] = &test_strncat_s;
testFuncs[36] = &test_strncpy_s;
testFuncs[37] = &test_strnlen_s;
testFuncs[38] = &test_strpbrk_s;
testFuncs[39] = &test_strprefix_s;
testFuncs[40] = &test_strremovews_s;
testFuncs[41] = &test_strspn_s;
testFuncs[42] = &test_strstr_s;
testFuncs[43] = &test_strtok_s;
testFuncs[44] = &test_strtolowercase_s;
testFuncs[45] = &test_strtouppercase_s;
testFuncs[46] = &test_strzero_s;

printf("\nSAFE STRING APIs TESTING\n");
printf("10 to test all memory funcs\n");
printf("50 to test all string funcs\n");
printf("60 to test all funcs\n");

printf("---------------------------\n");
// magic number to test all memory funcs
if (testcase == 10)
for (i=0; i<4; i++)
(*testFuncs[i])();

// magic number to test all string funcs
if (testcase == 50)
for (i=10; i<MaxTestCases; i++)
(*testFuncs[i])();

// magic number to test all funcs
if (testcase == 60)
for (i=1; i<MaxTestCases; i++)
(*testFuncs[i])();

(*testFuncs[testcase])();

printf("\n---------------------------\n"];
printf("\nSAFE STRING APIs TESTING DONE\n");

Found in path(s):
No license file was found, but licenses were detected in source scan.

# $Id:$
# $Source:$
#---------------------------------------------------------------------------------------------------
# Jamfile - specify NG rules to build this component.
# May 2013, Subramanian Karunanithi
# Copyright (c) 2013, 2022 by cisco Systems, Inc.
# All rights reserved.
#---------------------------------------------------------------------------------------------------

IosMain safec_test
  : test_safec.c
  : libsafec
;

IosMain test_str_safec
  : test_str_safec.c
  : libsafec
;

#---------------------------------------------------------------------------------------------------
# $Log:$
#---------------------------------------------------------------------------------------------------
# $Endlog$
#

Found in path(s):
  * /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/src/Jamfile
No license file was found, but licenses were detected in source scan.

#----------------------------------------------------------------------
# infra/safeC/test/Jamfile
#
# May-2013, Subramanian Karunanithi
#
# Copyright (c) 2013 by cisco Systems, Inc.
# All rights reserved.
#----------------------------------------------------------------------

SubDir TOP infra safeC test ;

IosComponentSrc infra safeC test ;

#----------------------------------------------------------------------
# End of infra/safeC/test/Jamfile
#----------------------------------------------------------------------
Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/test/Jamfile
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strisuppercase_s.c
* 
* October 2008, Bo Berry
* 
* Copyright (c) 2008-2015, 2018 by Cisco Systems, Inc.
* All rights reserved.
* ------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/src/safe_string/strisuppercase_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_limits.h -- limits include for portability
* 
* February 2009, Bo Berry
* 
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* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
* ------------------------------------------------------------------
*/

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/*---------------------------------------------------------------*/
/* safe_str_constraint.h */
/* */
/* October 2008, Bo Berry */
/* */
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/* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE */
/* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. */
/*---------------------------------------------------------------*/

/* */

No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------*/
/* safe_mem_constraint.h */
/* */
/* October 2008, Bo Berry */
/* */
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*/

No license file was found, but licenses were detected in source scan.

/**
 * safe_logger.h -- library include for portability
 *
 * October 2014, Mike Belscher
 *
 * Copyright (c) 2014-2015, 2018 by Cisco Systems, Inc.
 *
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 */

Found in path(s):
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/*-----------------------------------------------
 * safec_config.h -- common preprocessor macro definitions
 *
 * March 2016, Philip Perricone
 *
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 *
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 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safec_config.h

No license file was found, but licenses were detected in source scan.

/*================================================================--------------
 * test_strzero_s
 * To test strzero_s() function
 *
 * May 2013, Subramanian K
 *
 * Copyright (c) 2013 by cisco Systems, Inc.
 * All rights reserved.
 *

/*================================================================--------------
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

---

#include "safe_string.h"

#define STRSZERO_Copyright (c) 2008-2018 by Cisco Systems, Inc.
#define STRSZERO_All rights reserved.

/*-----------------------------*/

* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/configure.ac
No license file was found, but licenses were detected in source scan.

/*-----------------------------*/

* strstr_s.c
 *
* November 2008, Bo Berry
 *
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*------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strstr_s.c
No license file was found, but licenses were detected in source scan.

/*--------------------------------------------------------------
 * strtok_s.c
 *
 * October 2008, Bo Berry
 *
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 *--------------------------------------------------------------
 */

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* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strtok_s.c
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/*--------------------------------------------------------------
 * safe_str_lib.h -- Safe C Library String APIs
 *
 * October 2008, Bo Berry
 *
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 *--------------------------------------------------------------
 */

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/*----------------------------------------------
 * strcasestr_s.c
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* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcasestr_s.c
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#-----------------------------------------------
# infra/safeC/IosApiExports
#
# May-2013, Subramanian Karunanithi
#
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#-----------------------------------------------

IosApi
   safec__mem_primitives_lib__api
      : 0x15A10001
      : 1.0 ;

IosApi
   safec__safe_lib_errno__api
      : 0x15A10002
      : 1.1 ;

IosApi
   safec__safe_lib__api
      : 0x15A10003
      : 1.2 ;

IosApi
   safec__safe_limits__api
      : 0x15A10004
      : 1.3 ;

IosApi
   safec__safe_mem_constraint__api
      : 0x15A10005
      : 1.4 ;

IosApi
safec__safe_mem_lib__api
: 0x15A10006
: 1.5 ;

IosApi
safec__safe_str_constraint__api
: 0x15A10007
: 1.6 ;

IosApi
safec__safe_string__api
: 0x15A10008
: 1.7 ;

IosApi
safec__safe_str_lib__api
: 0x15A10009
: 1.8 ;

IosApi
safec__safe_types__api
: 0x15A1000A
: 1.9.0;

IosApiExportHeaders
infra safeC
: safe_lib.h
  safe_lib_errno.h
  safe_limits.h
  safe_mem_lib.h
  safe_stdlib.h
  safe_str_lib.h
  safe_string.h
  safe_types.h
  safec_config.h
  safec_mem_lib.h
  safec_str_lib.h
;

IosApiExportHeaders
infra safeC
: mem_primitives_lib.h
  infra safeC src safe_string
;

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/IosApiExports.jam
1.614 six 1.10.0-8.ph2

1.614.1 Available under license:
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1.615 util-linux 2.24.2

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1.625 util-linux 2.28.1

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use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

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1.632 libxml 2.9.4

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* /opt/cola/permits/1183607361_1627986470.27/0/lib27python-tgz/google/protobuf/internal/type_checkers.py
* /opt/cola/permits/1183607361_1627986470.27/0/lib27python-tgz/google/protobuf/internal/descriptor_test.py
* /opt/cola/permits/1183607361_1627986470.27/0/lib27python-tgz/google/protobuf/service.py
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