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Text Part Number: 78EE117C99-2209730733

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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  minibz2
    libbz2.dll test program.

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

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```
Ty Coon, President of Vice
That`s all there is to it!

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

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

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

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

```
_PROTOTYPE(void out_of_memory, (void));

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

static bc_num _bc_Free_list = NULL;

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

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

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

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

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

```
   _bc_Free_list = *num;
 }
 *num = NULL;
}


/* Intitialize the number package! */

void
bc_init_numbers ()
{
 _zero_ = bc_new_num (1,0);
 _one_  = bc_new_num (1,0);
 _one_->n_value[0] = 1;
 _two_  = bc_new_num (1,0);
 _two_->n_value[0] = 2;
}


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

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


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

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

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

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
```

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


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

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

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

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

```
    return (1);
}
  }

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

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

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
  {
    if (n1->n_scale > n2->n_scale)
{
  for (count = n1->n_scale-n2->n_scale; count>0; count--)
    if (*n1ptr++ != 0)
      {
 /* Magnitude of n1 > n2. */
```

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

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


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

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

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

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

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

char
bc_is_zero (num)
```

```
    bc_num num;
{
 int  count;
 char *nptr;

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

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

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

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

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

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

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

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

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

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

```
}


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

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num sum;
 int sum_scale, sum_digits;
 char *n1ptr, *n2ptr, *sumptr;
 int carry, n1bytes, n2bytes;
 int count;

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

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

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

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

```
  }

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

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

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

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

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

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

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

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

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

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

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

```
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)

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

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

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

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

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


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

void
bc_sub (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

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

```
 }
   }

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


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

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

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

```
 n1. */
   sum = _bc_do_sub (n1, n2, scale_min);
   sum->n_sign = n1->n_sign;
 }
   }

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

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

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
```

```
      int full_scale)
{
  char *n1ptr, *n2ptr, *pvptr;
 char *n1end, *n2end;  /* To the end of n1 and n2. */
 int indx, sum, prodlen;

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

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

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


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

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

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

```
 valp = (signed char *)(val->n_value + val->n_len - 1);
 carry = 0;

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

/* Recursive divide and conquer multiply algorithm.
  Based on
  Let u = u0 + u1*(b^n)
```

```
  Let v = v0 + v1*(b^n)
  Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

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

 /* Base case? */
 if ((ulen+vlen) < mul_base_digits
     || ulen < MUL_SMALL_DIGITS
     || vlen < MUL_SMALL_DIGITS ) {
   _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
   return;
 }

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

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

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

/* Calculate sub results ... */

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


/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

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

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

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

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

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
```

```
 bc_free_num (&m2);
 bc_free_num (&m3);
 bc_free_num (&d1);
 bc_free_num (&d2);
}

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

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
 int len1, len2;
 int full_scale, prod_scale;

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

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

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

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

static void
_one_mult (num, size, digit, result)
```

```
   unsigned char *num;
   int size, digit;
   unsigned char *result;
{
 int carry, value;
 unsigned char *nptr, *rptr;

 if (digit == 0)
   memset (result, 0, size);
 else
   {
    if
 (digit == 1)
 memcpy (result, num, size);
    else
 {
   /* Initialize */
   nptr = (unsigned char *) (num+size-1);
   rptr = (unsigned char *) (result+size-1);
   carry = 0;

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

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


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

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
 bc_num qval;
 unsigned char *num1, *num2;
 unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
 int  scale1, val;
```

```
unsigned int  len1, len2, scale2, qdigits, extra, count;
unsigned int  qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int  norm;

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

/* Test for divide by 1.  If it is we must truncate. */
if (n2->n_scale == 0)
  {
    if (n2->n_len == 1 && *n2->n_value == 1)
{
  qval = bc_new_num (n1->n_len, scale);
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
}
  }

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

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

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

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

```
n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }

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

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

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

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

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

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

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

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

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

 /* Test for negative result. */
 if (borrow == 1)
```

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

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

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

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

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


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

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

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

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

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

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

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


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

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

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

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

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

 /* Set initial values.  */
 power = bc_copy_num (base);
 exponent = bc_copy_num (expo);
 temp = bc_copy_num (_one_);
 bc_init_num(&parity);

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

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

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

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

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

```
  }

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

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

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

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

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

  /* Other initializations. */
  if (exponent < 0)
    {
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
```

```
  }
else
  {
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
  }

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

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

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

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

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

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

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


 /* Calculate the initial guess. */
 if (cmp_res < 0)
   {
     /* The number is between 0 and 1.  Guess should start at 1. */
     guess = bc_copy_num (_one_);
```

```
    cscale = (*num)->n_scale;
  }
else
  {
    /* The number is greater than 1.  Guess should
start at 10^(exp/2). */
    bc_int2num (&guess,10);

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

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

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


/* The following routines
```

```
 provide output for bcd numbers package
  using the rules of POSIX bc for output. */

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

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


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

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

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

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

void
```

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

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

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

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

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

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

```
  (*out_char) ('0');

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


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

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

/* Get and print the digits of the fraction part. */
```

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

    bc_free_num (&t_num);
   }

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

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

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

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

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


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

void
bc_int2num
 (num, val)
    bc_num *num;
    int val;
{
 char buffer[30];
 char *bptr, *vptr;
 int  ix = 1;
 char neg = 0;

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

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

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

 /* Make the number. */
 bc_free_num (num);
```

```
 *num = bc_new_num (ix, 0);
 if (neg) (*num)->n_sign = MINUS;

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

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

char
*num2str (num)
     bc_num num;
{
 char *str, *sptr;
 char *nptr;
 int  index, signch;

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

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

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

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

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

 /* Terminate the string and return it! */
 *sptr = '\0';
 return (str);
```

```
}
/* Convert strings to bc numbers.  Base 10 only.*/

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

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

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

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

 /* Build the whole number. */
 ptr = str;
 if (*ptr == '-')
   {
     (*num)->n_sign = MINUS;
     ptr++;
```

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


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

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

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


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


/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
```

```
   char *name;
   unsigned char *num;
   int len;
{
 int i;
 printf ("%s=", name);
 for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
 printf ("\n");
}
```

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1.5 mtd-utils 1.5.2

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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
   port. Clean up recvbuf and iosignal code into separate modules.
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   Trimble PARSE support
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makeover, various other bits

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1.14 shadow 4.5-1.1

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

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

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

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

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

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

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

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

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

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

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

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

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

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

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

These requirements apply to the modified work as a whole. If
identifiable sections
of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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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
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a storage or distribution medium does not bring the other work under
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that version instead if you wish.) Do not make any other change in
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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

@item
If distribution of the work is made by offering access to copy
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specified materials from the same place.

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

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

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

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You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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@enumerate a
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based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
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@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

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

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To apply these terms, attach the following notices to the library. It is
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@end
smallexample

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

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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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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.

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

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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
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1.18 dc 1.3

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

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

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

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

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

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

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

s.platform     = :ios, '7.0'

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

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

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

s.frameworks = 'QuartzCore','AudioToolbox'

  s.requires_arc = true

end
```

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DCPathButton

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

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md
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1.19 gmp 6.1.2

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1.21 lua 5.1

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1.23 ncurses 6.1

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1.24 ipmi-tool 1.8.18

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1.26 bash 5.0-4

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show
w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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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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1.28 audit 2.8.4-3

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case, there is little to gain by limiting
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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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1.29 cdebconf 0.249

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apt - The Debian Advanced Package Tool
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1.30 adduser 3.118

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1.32 coreutils 8.30-3

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1.33 diffutils 3.7-3

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```
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1.38 supervisor 3.3.5-1

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1.39 libtool 2.4.6-9

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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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

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1.46 guile 2.2.4+1-2+deb10u1

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1.47 lsof 4.89

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* /opt/ws_local/PERMITS_SQL/1027459591_1591847566.29/0/terminaltables-3-1-0-tar-gz/terminaltables-3.1.0/setup.py

1.49 dosfs-tools 3.0.26

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1.50 gpt-fdisk 0.8.8

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1.55 base-passwd 3.5.46

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1.56 kexec-tools 2.0.9

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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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
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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
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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,
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will operate
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.67 libseccomp 2.3.3-4

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A "library" means a collection of software functions and/or data

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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.)

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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```

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```
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1.69 libcap 2.25-2

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1.71 pam 1.3.1-5

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1.72 libmnl 1.0.4-2

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1.77 gpm 1.20.7-5

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1.78 tcp-wrappers 7.6.q-28

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1.79 liblognorm 2.0.5-1

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1.80 sysv-init 2.93-8

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1.86 zstd 1.3.8+dfsg-3+deb10u2

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Files-Excluded: appveyor.yml
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1.87 gc 7.6.4-0.4

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1.88 mpdecimal 2.4.1

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1.89 python-setuptools 40.8.0-1

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1.90 libev 4.25

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1.95 iputils 20180629-2+deb10u2

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

```
  "test/contrib/automotive/gm/*.uts",
  "test/contrib/automotive/bmw/*.uts",
  "test/contrib/automotive/xcp/*.uts",
  "test/contrib/*.uts"
 ],
 "remove_testfiles": [
  "test/linux.uts",
  "test/windows.uts",
  "test/contrib/automotive/ecu_am.uts",
  "test/contrib/automotive/gm/gmlanutils.uts",
  "test/contrib/isotp.uts",
  "test/contrib/isotpscan.uts"
 ],
 "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\")"
 },
 "kw_ko": [
  "linux",
  "windows",
  "crypto_advanced",
  "ipv6",
  "vcan_socket"
 ]
}
```

1.99 libgcrypt 1.8.4-5+deb10u1

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Fri, 3 Aug 2001 10:02:38 +0200.
It was taken over by Matthias Urlichs <smurf@debian.org>, and is now
maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland
<eric@debian.org>, James Westby <jw+debian@jameswestby.net>

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Assignment for future changes terminated on 2012-12-04.
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GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
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cipher/des.c.
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Weak key patches.

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LIBGCRYPT The Written Word 2005-04-15
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past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
sergi at calcurco dot org.

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1.106 dropbear 2016.74

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=====

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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.
*/

1.107 tdb 1.44.5

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

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

all:: image

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

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

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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

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1.110 golang-mock 1.5.0

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```

```
// Source: input.go

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

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

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

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

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

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty)
 EXPECT() *MockEmptyMockRecorder {
 return m.recorder
}
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package empty_interface

type Empty interface{}

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1.113 protobuf 1.27.1

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1.114 tdb 1.44.2

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1.115 libedit 3.1

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1.116 x-net 0.0.0-20220127200216-cd36cc0744dd

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1.117 cyrus-sasl 2.1.27+dfsg-1+deb10u2

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==========

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1.124 libnsl 2.28

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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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@subheading END OF TERMS AND CONDITIONS

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

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smallexample

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

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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.

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

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

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

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

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

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

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

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

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

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

of derivative or
collective works based on the Library.

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

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

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
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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 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.

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

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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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If the program is interactive, make it output a short notice like this
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This is free software, and you are welcome to redistribute
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Appendix: How to Apply These Terms to Your New Programs

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

```
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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

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

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.136 rsyslog 8.1901.0-1+deb10u2

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1.137 x-text 0.3.8

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1.138 fribidi 1.0.5-3.1+deb10u2

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1.139 bzip2 1.0.6-9.2~deb10u2

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1.140 sqlite 3.27.2-3+deb10u2

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1.141 libtasn 4.13-3+deb10u1

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
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with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
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2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
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   For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in
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==========
= Change Description / Commit Message / Patch Email =
==========

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
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and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
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==========
= Change Description / Commit Message / Patch Email =
==========

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

  Patch content inline or attached

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

  === Notes for sample patch email ===

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

  === Definitions for sample patch email ===

  * "CodeModule" is a short idenfier for the affected code.  For
    example MdePkg, or MdeModulePkg UsbBusDxe.
  * "Brief-single-line-summary" is a short summary of the change.
  * The entire first line should be less than ~70 characters.
  * "Full-commit-message" a verbose multiple line comment describing
    the change.
 Each line should be less than ~70 characters.
  * "Contributed-under" explicitely states that the contribution is
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1.143 gogo-protobuf 1.3.2

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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
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1.151 libffi 3.2.1-9

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1.152 libcap-ng 0.7.9-2

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1.155 libfastjson 0.99.8

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1.156 grub2 2.16

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1.159 debian-archive-keyring 2019.1+deb10u2

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1.163 openssl 3.1.2

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1.166 e2fsprogs 1.42.13

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

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

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

```
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
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This package was put together by Yann Dirson <dirson@debian.org>,
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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1.167 lzo 2.09

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Written by: Philip Hazel
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CMake was initially developed by Kitware with the following sponsorship:

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as part of the Insight Segmentation and Registration Toolkit (ITK).

* US National Labs (Los Alamos, Livermore, Sandia) ASC Parallel
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* National Alliance for Medical Image Computing (NAMIC) is funded by the
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1.171 util-linux 2.32.0

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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Version 3, 29 June 2007

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 is what you want to do, use the GNU Lesser General
Public License instead of this License.
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

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

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

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

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

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

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

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

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

 # Output the MD5 sum
 echo "$MD5SUM"
}

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

```
 exit 1
fi

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

;9GimCN7g

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

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

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

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B  "1
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```

1.172 iputils 20161105

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1.173 netbase 5.6

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1.174 util-linux 2.27.0

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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Version 3, 29 June 2007

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

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
```

```
 local raw_license_text=$(<"$FILE")

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

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

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

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

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

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

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

 # Output the MD5 sum
 echo "$MD5SUM"
}

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

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

;9GimCN7g

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

!"#$%&'()*+,-
```

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.176 busybox 1.25.1

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1.180 openssh 9.6p1

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```
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 *
 * 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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*/
* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
```

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1.181 busybox 1.28.4

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1.182 zlib 1.2.11

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1.185 zlib 1.2.7

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1.186 gpt-fdisk 1.0.3

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Glob: mysys/my_port.c
License: LGPL-2
-
Glob: debian/additions/innotop/*
License: GPL-2 or Artistic
-
Glob: storage/innobase/include/pars0grm.h storage/innobase/pars/pars0grm.cc \
storage/xtradb/include/pars0grm.h storage/xtradb/pars/pars0grm.cc
License: GPL-2+-with-bison-exception
-
Glob: storage/innobase/fts/fts0pars.cc sql/sql_yacc.cc sql/sql_yacc.h storage/innobase/include/fts0pars.h \
storage/xtradb/fts/fts0pars.cc storage/xtradb/include/fts0pars.h
License: GPL-3+-with-bison-exception
-
Glob: storage/connect/inihandl.c
VerifyLicense: LGPL-2.1+
-
Glob: storage/tokudb/ft-index/third_party/xz-4.999.9beta/m4/acx_pthread.m4
License: GPL-3+
-
Glob: plugin/auth_pam/testing/pam_mariadb_mtr.c
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-
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-
Glob: storage/oqgraph/graphcore-graph.h storage/oqgraph/graphcore.h storage/oqgraph/graphcore-graph.cc \
storage/oqgraph/graphcore-types.h storage/oqgraph/graphcore-config.h storage/oqgraph/graphcore.cc \
storage/oqgraph/oqgraph_judy.* storage/oqgraph/oqgraph_shim.* storage/oqgraph/oqgraph_thunk.*
License: GPL-2+
-
Glob: include/maria.h include/myisamchk.h
License: GPL-2+
-
Glob: storage/maria/ma_rt_index.c storage/maria/ma_rt_mbr.c storage/maria/ma_sp_defs.h
storage/maria/ma_rt_index.h storage/maria/ma_rt_mbr.h
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Contains: Everyone is permitted to copy and distribute verbatim copies
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License: GPL-verbatim
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Glob: storage/connect/CMakeLists.txt
VerifyLicense: GPL-2
-
Glob: storage/innobase/COPYING.*
CopyrightExtract: *extract
-
Glob: scripts/mysqlaccess.conf
MaxVersion: 5.6
License: GPL-2
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Glob: mysys/sha1.c
MaxVersion: 5.6
Copyright:
- 2002, 2004, 2006 MySQL AB
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-
Glob: regex/regexp.c
MaxVersion: 5.6
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VerifyLicense: UNKNOWN
License: BSD-like
-
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MaxVersion: 5.6
CopyrightExtract: \s**\s*Copyright\s*\(c\)\s+(\Y+\s**\s+SWsoft\s+company)

License: SWsoft
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Glob: debian/additions/mysqlreport*
MaxVersion: 5.6
Copyright: Daniel Nichter <public@codenode.com>
-
Glob: include/mysql_version.h.in
MaxVersion: 5.6
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-
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Glob: s*.h
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or GPL-2
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Glob: cmd-line-utils/readline* sql/* s*.sh
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CopyrightExtract: &CE
(?:(?:Copyright\s+\(C\)\s+(\Y+Google\s+Inc)\.\s*\R+)|(?:Copyright\s+\([Cc]\)\s+(\Y+(?:\s*\R\Y+)?\s*Free\s+Software\s+Foundation,\s+Inc)\.\s*\R+)|(?:Copyright\s+\(c\)\s+(\Y+Oracle\s+and/or\s+its\s+affiliates)\.\s+All\s+rights\s+reserved\.\s+\&\s+(tommy\@valley\.ne\.jp)\.\s*\R+)|(?:Copyright\s+\(c\)\s+(\Y+Sun\s+Microsystems,\s+Inc)\.\s*\R+)|(?:Copyright\s+\(c\)\s+(\Y+Innobase\s+Oy)\.\s+All\s+Rights\s+Reserved\.\s+\R+)|(?:/*\ Copyright\ \(C\)\ (\Y+MySQL\ AB)\s*\R+)|(?:/*\ Copyright\ \(C\)\ (\Y+MySQL\ AB)\ \&\ ([\w\ ]+)\s*\R+)|(?:(?:/*|\#)?\s*Copyright\s+(?:\(c\)\s+)?(\Y+MySQL\s+AB),\s+(\Y+Sun\s+Microsystems,\s+Inc)\.\s*\R+)|(?:Copyright\s+\(c\)\s+(\Y+Oracle\s+and/or\s+its\s+affiliates)\.\s+All\s+rights\s+reserved\.\s*\R+)|(?:\s*This\s+program\s+is\s+free\s+software[\w\s;/\.,-]{620,680}*/\s*/*\s+Written\s+by\s+([\s\w\.]+),\s+who\s+has\s+a\s+shared\s+copyright\s+to\s+this\s+code))+
-
Glob: scripts/*.pl
VerifyLicense: BSD (3 clause)
License: BSD-3-clause
CopyrightExtract: *CE
-
Glob: cmd-line-utils/*
MMagic: text/plain
VerifyLicense: BSD
Matches:
\s*[\#*]\s+Copyright\s+\(c\)\s+(?:1989,\s+)?(?:1990,\s+)?(?:1992,\s+)?1993\s+[\#*]\s+The\s+Regents\s+of\s+the\s+University\s+of\s+California
Copyright: 1989-1990, 1992-1993, The Regents of the University of California
-
Glob: zlib* storage/archive/azlib.h
MMagic: text/plain

CopyrightExtract: (?:(?:\s+Copyright\s+\(C\)\s+(\Y+Jean-loup\s+Gailly)\s+and\s+(Mark\s+Adler)\s*\R+)|(?:\s+*\s+Copyright\s+\(C\)\s+(\Y+Jean-loup\s+Gailly)\.\s*\R+)|(?:\s+*\s+Copyright\s+\(C\)\s+(\Y+Mark\s+Adler)\s*\R+))+
-
Glob: sql/* storage/* mysys/*
MMagic: text/plain
VerifyLicense: Public domain GPL (v2)
License: GPL-2
CopyrightExtract: *CE
-
Glob: s* plugin/* mysql-test/*.p[lm] tests/* mysys/* unittest/* include/* extra/* dbug/*.pl cmd-line-utils/readline*
VerifyLicense: GPL (v2)
CopyrightExtract: *CE
-
Glob: extra/*
MMagic: text/plain
VerifyLicense: UNKNOWN
CopyrightExtract: *CE
Matches: \s+This\s+file\s+is\s+free\s+documentation;\s+the\s+Free\s+Software\s+Foundation\s+gives\s+unlimited\s+permission\s+to\s+copy,\s+distribute\s+and\s+modify\s+it.
License: unlimited-free-doc
-
Glob: storage/ndb/src/common/util/md5_hash.cpp
MaxVersion: 5.6
MMagic: text/plain
Contains: |
```
/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest.  This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * The code has been
modified by Mikael Ronstroem to handle
 * calculating a hash value of a key that is always a multiple
 * of 4 bytes long. Word 0 of the calculated 4-word hash value
 * is returned as the hash value.
 */
```
Matches: the\s+Free\s+Software\s+Foundation;\s+version\s+2\s+of\s+the\s+License.
License: GPL-2
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-
Glob: mysys/md5.c
MaxVersion: 5.6
MMagic: text/plain
Contains: |
/* Copyright (C) 2000 MySQL AB

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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA */

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* 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.
*/

/* This code was modified in 1997 by Jim Kingdon of Cyclic Software to
not require an integer type which is exactly 32 bits. This work
draws on the changes for the same purpose by Tatu Ylonen
<ylo@cs.hut.fi> as part of SSH, but since I didn't actually use
that code, there is no copyright issue. I hereby disclaim
copyright in any changes I have made; this code remains in the
public domain. */
License: GPL-2
Copyright: Copyright (C) 2000 MySQL AB

Justification: Seems to have been taken out of public domain by Oracle.
-
Glob: storage/ndb/test/include/getarg.h
MaxVersion: 5.5.30
Copyright: |
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Justification: Check the actual file but this looks like a dual-license to me
-
Glob: dbug/*
Matches:
Copyright\s+Abandoned,\s+1987,\s+Fred\s+Fish\s+*\s+*\s+*\s+*\s+*\s+*\s+This\s+previously\s+copyrighted\s+work\s+has\s+been\s+placed\s+into\s+the\s+public\s+*\s+*\s+domain\s+by\s+the\s+author\s+and\s+may\s+be\s+freely\s+used\s+for\s+any\s+purpose,\s+*\s+*\s+private\s+or\s+commercial\.
Copyright: 1987 Abandoned Fred Fish
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Std:
ChangeLog:
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Default:
rules:
-
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Justification: This is taken from the README file.
README for Debian packaging contributors

This documentation describes how to contribute to the official Debian packages
of MariaDB. The packaging in Debian repositories is not identical to the packaging
in mariadb.org repositories, but whatever is in Debian repositories will eventually
be upstreamed.

Development environment and tools

Use a recent version of Debian or Ubuntu as the environment for Debian packaging
testing and development. Preferred environment is Debian Sid (unstable).

Install the tool used to manage and build the source
sudo apt-get install git-buildpackage

Getting the source

The official Debian package source is hosted on the Debian Gitlab server under
the MariaDB/MySQL packaging team at https://salsa.debian.org/mariadb-team/. You
are welcome to fork it and make merge requests.

To get the latest official Debian packaging source of mariadb-10.3, clone the source repository with all relevant branches (master, upstream, pristine-tar) to your local environment
using _git-buildpackage_:
gbp clone --pristine-tar https://salsa.debian.org/mariadb-team/mariadb-10.3.git

If you have your own fork and SSH keys set up on Salsa, you can run:
gbp clone --pristine-tar git@salsa.debian.org:<username>/mariadb-10.3.git

The clone needs to be run only once. On later runs you can refresh your clone with relevant branches using
gbp pull --pristine-tar --force

Building the packages

Build binaries, run testsuite and build Debian packages with
gbp buildpackage

On the first run git-buildpackage will complain if some of the build dependencies defined in debian/control are missing. Simply install those packages and run the build again.

A quick command to install all dependencies:
sudo mk-build-deps -r -i debian/control -t "apt-get -y -o Debug::pkgProblemResolver=yes --no-install-recommends"

If the build fails, the easiest way to clean up before a new run is
git clean -fdx && git reset --hard

Build options

If you want to skip the
mysql-test-run step (which takes a lot of time) set
the following environment variable:
export DEB_BUILD_OPTIONS="nocheck"

If you want to run the build in parallel on 2 CPUs and have verbose output:
export DEB_BUILD_OPTIONS="parallel=2 verbose"

The options above can also be combined freely to get desired behavior.

Creating a feature or bugfix branch

The repository has the following branch layout:
 * upstream - contains the upstream source releases without modifications
 * pristine-tar - contains extra delta needed to re-create the original
   tarballs with the exactly same SHA-1 hash as the original tarballs by upstream
 * master - packaging for Debian Sid (unstable)
 * jessie - release branch for Debian 8 (jessie)
 * stretch - release branch for Debian 9 (stretch)
 * ubuntu-16.04 - release branch for Ubuntu 16.04 (xenial)
 * ubuntu-18.04 - release branch for Ubuntu 18.04 (bionic)

All new features and also bugfixes are done only in the master branch. The
release
 branches for Debian and Ubuntu are only used for security updates.

To prepare the Salsa pull request, create a bugfix branch from master with:
 git checkout -b fix-example-name

After this you can develop with all the usual git commit and push commands
until you have in your fork at Salsa the desired change and you are ready
to open the merge request.

Notes about how to make changes in the proper way

First consider submitting your patch upstream. Upstream MariaDB makes frequent
maintenance releases and any fix done upstream will therefore be included in
Debian relatively quickly. You can send email to the developers mailing list
or open a pull request at https://github.com/MariaDB/server.

Follow these instructions if your fix is about packaging in Debian specifically.
Start by using gitk or similar tool to browse the previous changes. Try to follow
similar pattern in your new changes.

Keep in mind that all changes must done only for files residing in the debian/
subdirectory.
 If you need to create changes outside the debian/ directory,
then you need to create a patch file using the same pattern as the patches
found in debian/patches and activated by a line in debian/patches/series

Do not bundle in your commit any changes to debian/changelog. The correct changelog
entries will be created later by the maintainer using git-dch in an automated fashion.

For an example of a patch adding commit see https://github.com/ottok/mariadb-10.0/commit/8d2a7c909

Using Docker

First make a working directory for the build artefacts. Inside that directory
clone the repository. Then start a Docker session using whatever Debian/Ubuntu

image you want with the command:
 docker run -it -v ${PWD}:/build -w /build debian:sid bash

This will start a session, where you are as the root user in the path /build
inside the Docker container. Here you can cd into the source directory, install
dependencies and start the build. Note that when you exit the session,
everything will be lost
 apart from the files you had inside the mounted volume
in /build.

Using sbuild

If you prefer sbuild, you can build with something like:
 gbp buildpackage --git-builder=sbuild -A -v -d unstable
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: MariaDB Server
Upstream-Contact: https://mariadb.org/jira
Source: https://github.com/MariaDB/server
Comment:
Originally produced by a modified version of licensecheck2dep5
from CDBS by Clint Byrum <clint@ubuntu.com>. Hand modified to reduce
redundancy in the output and add appropriate license text. The file
has been rechecked against the source using the development version
of license-reconcile, see #686485.
.
Also, MySQL carries the "FOSS License Exception" specified in README
.
Quoting from README:
.
MySQL FOSS License Exception We want free and open source
software applications under certain licenses to be able to use
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2 of the GNU General Public License. Therefore there are
special exceptions to the terms and conditions of the GPLv2
as applied to these client
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<http://www.mysql.com/about/legal/licensing/foss-exception.html>.
.
The text of the Above URL is quoted below, as of Aug 17, 2011.
.
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> .
> Updated July 1, 2010
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> Python Software Foundation License 2.1.1
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2008-2014 SkySQL Ab
2013-2016 MariaDB Corporation
2012-2016 MariaDB Foundation
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Files: debian/*
Copyright:
1997-1998, Scott Hanson <shanson@debian.org>
1997 Christian Schwarz <schwarz@debian.org>
1999-2007, 2009, Christian Hammers <ch@debian.org>
2000-2001, Christopher C. Chimelis <chris@debian.org>
2001 Matthew Wilcox <willy@debian.org>
2005-2007, Sean Finney <seanius@debian.org>
2006 Adam Conrad <adconrad@0c3.net>
2007-2011, Norbert Tretkowski <norbert@tretkowski.de>
2007-2008, Monty Taylor <mordred@inaugust.com>
2008 Devin Carraway <devin@debian.org>
2008 Steffen Joeris <white@debian.org>
2009 Canonical Ltd
2010 Xavier Oswald <xoswald@debian.org>
2011 Clint Byrum <clint@ubuntu.com>
2011 Ondej Sur <ondrej@debian.org>
2012 Nicholas Bamber <nicholas@periapt.co.uk>
2013,2016 Kristian Nielsen <knielsen@askmonty.org>
2013-2016 Otto Keklinen <otto@seravo.fi>
2014 Julien Muchembled <jm@jmuchemb.eu>
2014 Tobias Frost <tobi@coldtobi.de>
2015 Andreas Beckmann <anbe@debian.org>
2015-2016 Arnaud Fontaine
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2015-2016 Daniel Black <daniel.black@openquery.com.au>
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2015 Jan Wagner <waja@cyconet.org>
2015 Jean Weisbuch <jean@phpnet.org>
2015 Olaf van der Spek <olafvdspek@gmail.com>
2015-2106 Robie Basak <robie.basak@canonical.com>
2016 Axel Beckert <abe@debian.org>
2016 Dieter Adriaenssens <dieter.adriaenssens@gmail.com>
2016 Ian Gilfillan <ian@mariadb.org>
2016 James Cowgill <jcowgill@debian.org>
2016 Paul Gevers <elbrus@debian.org>
2016 Samuel Thibault <sthibault@debian.org>
2016 Viceniu Ciorbaru <vicentiu@mariadb.org>
License: GPL-2+

Files: plugin/feedback/*

Copyright: 2010 Sergei Golubchik and Monty Program Ab
License: GPL-2

Files: debian/additions/mysqlreport*
Copyright: 2006-2008 Daniel Nichter <public@codenode.com>
2012-2015 Jean Weisbuch
License: GPL-2+

Files:
dbug/example1.c
dbug/example2.c
dbug/example3.c
dbug/factorial.c
dbug/main.c
dbug/my_main.c
dbug/remove_function_from_trace.pl
dbug/tests.c
dbug/tests-t.pl
include/probes_mysql_nodtrace.h.in
libmysqld/resource.h
mysql-test/*
support-files/binary-configure.sh
support-files/mysqld_multi.server.sh
support-files/mysql-log-rotate.sh
support-files/mysql.server-sys5.sh
Docs/*
Copyright: UNKNOWN
Comment: These files fall under the blanket license specified in the file
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Files: BUILD/*
client/*
client/echo.c
cmake/*
dbug/dbug_add_tags.pl
extra/*
include/*
libmysqld/*
libservices/*

mysql-test/include/have_perfschema.inc
mysql-test/lib/mtr_cases.pm
mysql-test/lib/mtr_gprof.pl
mysql-test/lib/mtr_io.pl
mysql-test/lib/mtr_match.pm
mysql-test/lib/mtr_process.pl
mysql-test/lib/mtr_report.pm
mysql-test/lib/mtr_results.pm
mysql-test/lib/mtr_stress.pl
mysql-test/lib/mtr_unique.pm
mysql-test/lib/My/Config.pm
mysql-test/lib/My/CoreDump.pm
mysql-test/lib/My/File/*
mysql-test/lib/My/Find.pm
mysql-test/lib/My/Handles.pm
mysql-test/lib/My/Options.pm
mysql-test/lib/My/Platform.pm
mysql-test/lib/My/SafeProcess/Base.pm
mysql-test/lib/My/SafeProcess/safe_kill_win.cc
mysql-test/lib/My/SafeProcess/safe_process.cc
mysql-test/lib/My/SafeProcess/safe_process_win.cc
mysql-test/lib/My/SysInfo.pm
mysql-test/lib/My/Test.pm
mysql-test/lib/t/*
mysql-test/lib/v1/mtr_cases.pl
mysql-test/lib/v1/mtr_gcov.pl
mysql-test/lib/v1/mtr_gprof.pl
mysql-test/lib/v1/mtr_im.pl
mysql-test/lib/v1/mtr_io.pl
mysql-test/lib/v1/mtr_match.pl
mysql-test/lib/v1/mtr_process.pl
mysql-test/lib/v1/mtr_report.pl
mysql-test/lib/v1/mtr_stress.pl
mysql-test/lib/v1/mtr_timer.pl
mysql-test/lib/v1/mtr_unique.pl
mysql-test/lib/v1/My/*
mysql-test/lib/v1/mysql-test-run.pl
mysql-test/lib/v1/mtr_misc.pl
mysql-test/mysql-stress-test.pl
mysql-test/mysql-test-run.pl
mysql-test/std_data/*
mysql-test/suite/perfschema/include/*
mysql-test/suite/perfschema_stress/include/*
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strings/ctype-uca.c
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support-files/MacOSX/postflight.sh
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mysql-test/mysql-stress-test.pl
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1.192 python 3.7.3-2+deb10u7

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.194 exim 4.92-8+deb10u9

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```
#!/usr/bin/env perl
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use strict;
use warnings;
use Carp;
use Cwd qw'abs_path';
use File::Basename;
use File::Path qw(make_path remove_tree);
use File::Temp;
use Getopt::Long;
use IO::File;
use Pod::Usage;
use Digest::SHA;
use feature 'state';
use if $ENV{DEBUG} => 'Smart::Comments';

my $ME = basename $0;



my $debug   = undef;
my $verbose = 0;

# MAJOR.MINOR[.SECURITY[.FIXES]][-RCX]
# 4    .90    .0        .22      -RC1
my $version_pattern = qr/
   (?<release>
   (?<target_release>
         (?<major>\d)         # 4
        \.(?<minor>\d+)        #  .90 or .105
     (?:\.(?<security>\d+)     #     .0
     (?:\.(?<fixes>)\d+)?)?    #       .22
   )                           # target-release ->|
      (?:-(?<rc>RC\d+)?)?      #          -RC1
   )
/x;
```

```
my $quick_version_pattern = qr/
  (?<release>
  (?<last_tag>
         (?<major>\d)         # 4
        \.(?<minor>\d+)
        #  .90 or .105
     (?:\.(?<security>\d+)     #     .0
     (?:\.(?<fixes>)\d+)?)?    #       .22
  )                            # last-tag ->|
      (?:-(?<quick>\d+-g[[:xdigit:]]+))?     #  -3-gdeadbef
   )
/x;

# ------------------------------------------------------------------

package Context {
   use strict;     # not strictly necessary yet, until in an own package
   use warnings;   # not strictly necessary yet, ...
   use File::Spec::Functions qw'splitpath catfile catdir splitdir';
   use File::Path qw'make_path remove_tree';
   use File::Copy;
   use Cwd qw'abs_path';
   use Carp;

   package PWD {
      use Cwd;
      sub TIESCALAR { bless do {\my $x} }
      sub FETCH { cwd }
   }

   tie my $cwd => 'PWD' or die;    # this returns the current dir now, dynamically

   sub new {
      my $class = shift;
      return bless { @_ } => $class;
   }

   sub check_version {
      my $context = shift;
      my $version = shift // 'HEAD';

       #
      # v => {
      #   release =>                  4.92-RC4 |    4.92-27-gabcdef
      #   target_release|last_tag =>   4.92     |    4.92
      #
      #   major    =>  4
```

```
#   minor    =>  92
#   security =>
#   fixes    =>
#
#   rc|quick =>   RC4 | 27-gabcdef
#   }

#
# v => {
#   release =>                  4.92-RC4 |    4.92-27-gabcdef-dirty
#   target_release|last_tag =>   4.92     |    4.92
#
#   major    =>  4
#   minor    =>  92
#   security =>
#   fixes    =>
#
#   rc|quick =>   RC4 | 27-gabcdef-dirty
#   }

if ($context->{quick}) {
   # Try to find suitable version description
   chomp(my $describe = do {   # we wrap it into a open() to avoid hassle with
      open(my $fh, '-|',      # strange version descriptions
         'git', describe => $version) or die;
       <$fh>
      } // exit 1);
   $describe =~ /$quick_version_pattern/;

   %{$context->{v}} = %+;
   ($context->{commit}) = $version // ($context->{v}{quick} =~ /g([[:xdigit:]]+)/);
}
else {
   croak "The given version number does not look right - $version"
      if not $version =~ /$version_pattern/;
   %{$context->{v}} = %+;

   # find a valid vcs tag matching the version
   my $pattern = "$context->{pkgname}-$context->{v}{release}" =~ s/[-_.]/[-_.]/gr;
   chomp(my @tags = qx{git tag --list '$pattern'});

   croak "The given version is ambigous, tags: @tags\n" if @tags > 1;
   croak "The given version does not exist (no such tag: exim-$version)\n" if @tags == 0;

   $context->{commit} = $tags[0];
   # target_release: the release we aim to reach with release candidates
   # FIXME: re-construct from the parsed version number
```

```
    }

    die "$ME: This script doesn't work for versions prior 4.92-RCx. "
      ."Please checkout an older version.\n"
      if $context->{v}{major} < 4
      or $context->{v}{major} == 4 && $context->{v}{minor} < 92;

    ### v: $context->{v}

  }


  # We prefer gtar to tar if gtar exists in $PATH
  sub override_tar_cmd {
    my $context = shift;
    my $tar = $context->{tar_cmd};

    return unless $tar eq 'tar';

    foreach my $d (File::Spec->path()) {
      my $p = catfile($d, 'gtar');
      if (-x $p) {
        $context->{tar_cmd} = $p;
        print "Switched tar command to: $p\n" if $verbose;
        return;
      }
    }
  }

  sub prepare_working_directory {
    my $context = shift;
    my $workspace = $context->{workspace};

    if (not defined $workspace) {
      $workspace = $context->{workspace} = File::Temp->newdir(
        TEMPLATE => File::Spec->tmpdir
. '/exim-packaging-XXXX',
        CLEANUP  => $context->{cleanup});
    }
    else {
      # ensure the working directory is not in place
      if (-e $workspace) {
        if ($context->{delete}) {
          print "Deleting existing $workspace\n" if $verbose;
          remove_tree $workspace, { verbose => $verbose || $debug };
        }
        else {
          croak "Working directory $workspace exists" if -e $workspace;
```

```
            }
        }

        # create base directory
        make_path( $context->{directory}, { verbose => $verbose || $debug } );
    }

    # Set(!) and create subdirectories
    foreach (qw(vcs_export pkg_tars pkg_trees tmp)) {   # {dookbook}
        make_path(
            $context->{d}{$_} = catdir($workspace, $_),
            { verbose => $verbose || $debug });
    }
}

sub export_git_tree {
    my $context
 = shift;

    # build git command
    my $archive_file = $context->{tmp_archive_file} = sprintf'%s/%s-%s.tar', $context->{d}{tmp}, $context-
>{pkgname}, $context->{v}{release};
    ### $archive_file
    my @cmd = ( 'git', 'archive', '--format=tar', "--output=$archive_file", $context->{commit} );
    ### @cmd
    # run git command
    print "[$cwd] Running: @cmd\n" if $verbose;
    0 == system @cmd or croak "Export failed";
}

sub unpack_tree {
    # TODO: Why can't we combine the export_git_tree with the
    # unpack_tree function?
    my $context = shift;

    ### $context
    die "Cannot see archive file\n" unless -f $context->{tmp_archive_file};
    my @cmd = ('tar',
        xf => $context->{tmp_archive_file},
        -C => $context->{d}{vcs_export} );

    # run  command
    print "[$cwd] Running: @cmd\n" if $verbose;
    system @cmd and croak "Unpack failed\n";

}

sub make_version_script
```

```
{
    my $context = shift;

    #my $variant = substr( $context->{v}{release}, length($context->{v}{target_release}) );
    #if ( $context->{v}{release} ne $context->{v}{target_release} . $variant ) {
    #    die "Broken version numbering, I'm buggy";
    #}


    # Work
    if (not my $pid = fork // die "$ME: Cannot fork: $!\n") {

        my $source_tree    = catdir($context->{d}{vcs_export}, 'src', 'src');
        ### $source_tree

        chdir $source_tree or die "chdir $source_tree: $!\n";

        croak "WARNING: version.sh already exists - leaving it in place\n"
            if -f 'version.sh';

        # Currently (25. Feb. 2016) the mk_exim_release.pl up to now can't
        # deal with security releases.!? So we need a current
        # mk_exim_release.pl. But if we use a current (master), the
        # reversion script returns wrong version info (it's running inside
        # the Git tree and uses git --describe,
which always returns the
        # current version of master.) I do not want to change the old
        # reversion scripts (in 4.86.1, 4.85.1).
        #
        # Thus we've to provide the version.sh, based on the info we have
        # about the release. If reversion finds this, it doesn't try to find
        # it's own way to get a valid version number from the git.
        #
        # 4.89 series: the logic here did not handle _RC<N> thus breaking RC
        # status in versions.  nb: rc in context should be same as $variant
        # in local context.

        #my $stamp = $context->{minor} ? '_'.$context->{minor} : '';
        #$stamp .= $context->{rc} if $context->{rc};
        my $release = $context->{quick} ? $context->{v}{last_tag}
                                : $context->{v}{target_release};

        my $variant =
            $context->{v}{rc} ? $context->{v}{rc}
            : $context->{v}{quick}
? $context->{v}{quick}
            : '';
```

```
        print "[$cwd] create version.sh\n" if $verbose;
        open(my $v, '>', 'version.sh') or die "Can't open version.sh for writing: $!\n";
        print {$v} <<__;
# initial version automatically generated by $0
EXIM_RELEASE_VERSION=$release
EXIM_VARIANT_VERSION=$variant
EXIM_COMPILE_NUMBER=0
# echo "[[[ \$EXIM_RELEASE_VERSION | \$EXIM_VARIANT_VERSION | \$EXIM_COMPILE_NUMBER
]]]"
__
        close $v  or die "$0: Can not close $source_tree/version.h: $!\n";
        unlink 'version.h' or die "$ME: Can not unlink $source_tree/version.h: $!\n"
           if -f 'version.h';

        # Later, if we get the reversion script fixed, we can call it again.
        # For now (25. Feb. 2016) we'll leave it unused.
        #my @cmd = ('../scripts/reversion', 'release', $context->{commit});

        my @cmd = ('../scripts/reversion', 'release');
        print "[$cwd] Running: @cmd\n" if $verbose;
         system(@cmd) and croak "reversion failed";

        die "$ME: failed to create version.sh"
           unless -f 'version.sh';

        exit 0;
     }
     else {
        $pid == waitpid($pid, 0) or die "$0: waidpid: $!\n";
        exit $? >> 8 if $?;
     }
  }

  sub build_documentation {
     my $context = shift;
     my $docdir = catdir $context->{d}{vcs_export}, 'doc', 'doc-docbook';

     # documentation building does a chdir, so we'll do it in a
     # subprocess
     if (not my $pid = fork // die "$ME: Can't fork: $!\n") {
        chdir $docdir or die "$ME: Can't chdir to $docdir: $!\n";
        system('./OS-Fixups') == 0 or exit $?;
        exec $context->{make_cmd},
           "EXIM_VER=$context->{v}{release}", 'everything'
           or die "$ME: [$cwd] Cannot exec $context->{make_cmd}: $!\n";
     }
     else {
        waitpid($pid, 0);
```

```
        exit $? >> 8 if $?;
    }

    $context->copy_docbook_files;
}

sub copy_docbook_files {
    my $context = shift;

    # where the generated docbook files can be found
    my $docdir = catdir $context->{d}{vcs_export}, 'doc', 'doc-docbook';

    foreach ('spec.xml', 'filter.xml') {
        my $from = catfile $docdir, $_;
        my $to = catdir $context->{d}{tmp}; # {dookbook}
        copy $from => $to    or die $@;
    }
}

sub build_html_documentation {
    my $context = shift;

    # where the website docbook source dir is - push the generated
    # files there
    {
        my $webdir = catdir $context->{website_base}, 'docbook', $context->{v}{target_release};
        make_path $webdir, { verbose => $verbose || $debug };
        copy catfile($context->{d}{vcs_export}, 'doc', 'doc-docbook', $_)
            => $webdir or die $@
            for 'spec.xml', 'filter.xml';
    }

    my $gen    = catfile $context->{website_base},
'script/gen';
    my $outdir = catdir $context->{d}{pkg_trees}, "exim-html-$context->{v}{release}";

    make_path $outdir, { verbose => $verbose || $debug };

    my @cmd = (
        $gen,
        '--spec'    => catfile($context->{d}{tmp}, 'spec.xml'),     # {dookbook}
        '--filter'  => catfile($context->{d}{tmp}, 'filter.xml'),   # {dookbok}
        '--latest'  => $context->{v}{target_release},
        '--docroot' => $outdir,
        '--localstatic',
        ($verbose || $debug ? '--verbose' : ()),
    );
```

```
    print "[$cwd] Executing @cmd\n";
    0 == system @cmd or exit $? >> 8;

}

sub sign {
    my $context = shift;
    foreach my $tar (glob "$context->{d}{pkg_tars}/*") {
        system gpg =>
        '--quiet', '--batch',
        defined $context->{gpg}{key}
            ? ('--local-user' => $context->{gpg}{key})
            : (),
        '--detach-sig', '--armor', $tar;

   }
}

sub move_to_outdir {
    my $context = shift;
    make_path $context->{OUTDIR}, { verbose => $verbose || $debug };
    move $_ => $context->{OUTDIR} or die $@
        for glob "$context->{d}{pkg_tars}/*";
}

sub build_src_package_directory {
    my $context = shift;

    # build the exim package directory path
    $context->{d}{src} = catdir $context->{d}{pkg_trees}, "exim-$context->{v}{release}";

    # initially we move the exim-src directory to the new directory name
    move
        catdir( $context->{d}{vcs_export}, 'src')
        => $context->{d}{src}
    or croak "Move of src dir failed - $!";

    # add Local subdirectory
    make_path( catdir( $context->{d}{src}, 'Local' ), { verbose => $verbose || $debug } );

    # now add the text docs
    $context->move_text_docs_into_pkg;
}

sub build_doc_packages_directory {
    my $context = shift;

    ##foreach my $format (qw/pdf
```

```
postscript texinfo info/) {
    foreach my $format (qw/pdf postscript/) {
        my $target = catdir $context->{d}{pkg_trees}, "exim-$format-$context->{v}{release}", 'doc';
        make_path( $target, { verbose => $verbose || $debug } );

        # move documents across
        foreach my $file (
            glob(
                catfile(
                    $context->{d}{vcs_export},
                    'doc',
                    'doc-docbook',
                    (
                        ( $format eq 'postscript' )
                        ? '*.ps'
                        : ( '*.' . $format )
                    )
                )
            )
        )
        {
            move( $file, catfile( $target, ( splitpath($file) )[2] ) );
        }
    }
}

sub move_text_docs_into_pkg {
    my $context = shift;

    my $old_docdir = catdir( $context->{d}{vcs_export}, 'doc', 'doc-docbook'
);
    my $old_txtdir = catdir( $context->{d}{vcs_export}, 'doc', 'doc-txt' );
    my $new_docdir = catdir( $context->{d}{src}, 'doc' );
    make_path( $new_docdir, { verbose => $verbose || $debug } );

    # move generated documents from docbook stuff
    foreach my $file (qw/exim.8 spec.txt filter.txt/) {
        die "Empty file \"$file\"\n" if -z catfile( $old_docdir, $file );
        move( catfile( $old_docdir, $file ), catfile( $new_docdir, $file ) );
    }

    # move text documents across
    foreach my $file ( glob( catfile( $old_txtdir, '*' ) ) ) {

        # skip a few we dont want
        my $fn = ( splitpath($file) )[2];
        next
        if ( ( $fn eq 'ABOUT' )
```

```
            || ( $fn eq 'ChangeLog.0' )
            || ( $fn eq 'test-harness.txt' )
            # Debian issue re licensing of RFCs
            || ( $fn =~ /^draft-ietf-.*/ )
            || ( $fn =~ /^rfc.*/ )
            );

        move( $file, catfile( $new_docdir, $fn ) );
    }
}

sub create_tar_files {
    my $context = shift;

    my $pkg_tars    = $context->{d}{pkg_tars};
    my $pkg_trees = $context->{d}{pkg_trees};
    my $tar     = $context->{tar_cmd};
    if ($verbose) {
        foreach my $c (keys %{ $context->{compressors} }) {
            print "Compression: $c\t$context->{compressors}{$c}\n";
        }
    }

    # We ideally do not want local system user information in release tarballs;
    # those are artifacts of use of tar for backups and have no place in
    # software release packaging; if someone extracts as root, then they should
    # get sane file ownerships.
    my @ownership = (
        '--owner' => $context->{tar_perms}{user},
        '--group' => $context->{tar_perms}{group},
        # on this GNU tar, --numeric-owner works during creation too
        '--numeric-owner'
    ) if qx/tar --help
2>&1/ =~ /^\s*--owner=/m;

    # See also environment variables set in main, tuning compression levels

    my (%size, %sha256, %sha512);

    foreach my $dir ( glob( catdir( $pkg_trees, ( 'exim*-' . $context->{v}{release} ) ) ) ) {
        my $dirname = ( splitdir($dir) )[-1];
        foreach my $comp (keys %{$context->{compressors}}) {
            my %compressor = %{$context->{compressors}{$comp}};
            next unless $compressor{use};

            my $basename = "$dirname.tar.$compressor{extension}";
            my $outfile = catfile $pkg_tars, $basename;
```

```
            print "Creating: $outfile\n" if $verbose || $debug;
            0 == system($tar,
               cf => $outfile,
                  $compressor{flags},
                  @ownership, -C => $pkg_trees, $dirname)
               or exit $? >> 8;

            # calculate size and md5sum
            $size{$basename} = -s $outfile;

 $sha256{$basename} = Digest::SHA->new(256)->addfile($outfile)->hexdigest;
            $sha512{$basename} = Digest::SHA->new(512)->addfile($outfile)->hexdigest;
         }
      }

      # write the sizes file
      if ($context->{sizes}) {
         for ([ sizes => 'SIZE' => \%size ],
             [ sha256sums => 'SHA256' => \%sha256 ],
             [ sha512sums => 'SHA512' => \%sha512 ]) {

            my $outfile = catfile $pkg_tars, "00-$_->[0].txt";
            my $tag = $_->[1];
            my $sizes = $_->[2];

            open my $out, '>', $outfile
               or die "$ME: Can't open `$outfile': $!\n";

            print $out join "\n",
               (map { "$tag ($_) = $sizes->{$_}" } sort keys %$sizes),
               ";

            close($out) or die "$ME: Can't close $outfile: $!\n";
         }
      }
   }

   sub do_cleanup {
      my $context = shift;

      print "Cleaning up\n" if $verbose;
       remove_tree $context->{d}{tmp}, { verbose => $verbose || $debug };
   }

}

# Check, if tar understands --use-compress-program and use this, as
# at least gzip deprecated passing options via the environment.
```

```
sub compressor {
  my ($compressor, $fallback) = @_;
  state $use_compress_option  =
     0 == system("tar c -f /dev/null -C / --use-compress-program=cat dev/null 2>/dev/null");
  return $use_compress_option
     ? "--use-compress-program=$compressor"
     : ref $fallback eq ref sub {} ? $fallback->() : $fallback;
}

MAIN: {

  # some of these settings are useful only if we're in the
  # exim-projekt-root, but the check, if we're, is deferred
  my $context = Context->new(
     pkgname     => 'exim',
     website_base => abs_path('../exim-website'),
     tar_cmd     => 'tar',
     tar_perms   => {
           user    => '0',
           group   => '0',
     },
     make_cmd    => 'make',  # for 'make'ing the docs
     sizes
     => 1,
     compressors => {
        gzip  => { use => 1, extension => 'gz',  flags => compressor('gzip -9', sub { $ENV{GZIP} = '-9'; '--gzip' }) },
        bzip2 => { use => 1, extension => 'bz2', flags => compressor('bzip2 -9', sub { $ENV{BZIP2} = '-9'; '--bzip2'
}) },
        xz    => { use => 1, extension => 'xz',  flags => compressor('xz -9', sub { $ENV{XZ_OPT} = '-9'; '--xz' }) },
        lzip  => { use => 0, extension => 'lz',  flags => compressor('lzip -9', '--lzip') },
     },
     docs        => 1,
     web         => 1,
     delete      => 0,
     cleanup     => 1,
     gpg => {
        sign        => 1,
        key         => undef,
     },
     quick => 0,
  );

  ##$ENV{'PATH'} = '/opt/local/bin:' . $ENV{'PATH'};

  GetOptions(
     $context,
     qw(workspace|tmp=s website_base|webgen_base=s tar_cmd|tar-cmd=s make_cmd|make-cmd=s
       docs|build-docs! web|build-web! sizes!
```

```
        delete! cleanup!
 quick|quick-release! minimal),
      'sign!'         => \$context->{gpg}{sign},
      'key=s'         => \$context->{gpg}{key},
      'verbose!'      => \$verbose,
      'compressors=s@' => sub {
         die "$0: can't parse compressors string `$_[1]'\n" unless $_[1] =~ /^[+=-]?\w+(?:[+=-]\w+)*$/;
         while ($_[1] =~ /(?<act>[+=-])?(?<name>\w+)\b/g) {
            die "$0: Unknown compressor $+{name}"
               unless $context->{compressors}{$+{name}};
            if (not defined $+{act} or $+{act} eq '=') {
               $_->{use} = 0
                  for values %{$context->{compressors}};
               $context->{compressors}{$+{name}}{use}++;
            }
            elsif ($+{act} eq '+') { $context->{compressors}{$+{name}}{use}++; }
            elsif ($+{act} eq '-') { $context->{compressors}{$+{name}}{use}--; }
         }
      },
      'debug:s'       => \$debug,
      'quick'         => sub {
 $context->{web}--; $context->{quick} = 1 },
      'help|?'        => sub { pod2usage(-verbose => 1, -exit => 0) },
      'man!'          => sub { pod2usage(-verbose => 2, -exit => 0, -noperldoc => system('perldoc -V >/dev/null
2>&1')) },
   ) and (@ARGV == 2 or ($context->{quick} and @ARGV >= 1))
      or pod2usage;

   -f '.exim-project-root'
      or die "$ME: please call this script from the root of the Exim project sources\n";

   $context->{OUTDIR} = pop @ARGV;

   if ($context->{gpg}{sign}) {
      $context->{gpg}{key} //= do { chomp($_ = qx/git config user.signingkey/); $_ }
         || $ENV{EXIM_KEY}
         || do {
            warn "$ME: No GPG key, using default\n";
            undef;
         }
   }



   warn "$ME: changed umask to 022\n" if umask(022) != 022;

   $context->check_version(shift); # may be undef for a quick release

   if ($debug//'' eq 'version') {
```

```
    for (sort keys %{$context->{v}}) {
        print "version $_: $context->{v}{$_}\n";
     }
    print "git commit: $context->{commit}\n";
    exit 0;
  }
  $context->override_tar_cmd;
  $context->prepare_working_directory;
  $context->export_git_tree;
  $context->unpack_tree;
  $context->make_version_script;

  $context->build_documentation if $context->{docs};
  $context->build_html_documentation if $context->{docs} && $context->{web};

  $context->build_src_package_directory;
  $context->build_doc_packages_directory if $context->{docs};

  $context->create_tar_files;
  $context->sign if $context->{gpg}{sign};
  $context->move_to_outdir;
  $context->do_cleanup if $context->{cleanup};

  ### $context
}

1;

__END__

=head1 NAME

mk_exim_release - Build an exim release

=head1 SYNOPSIS

mk_exim_release [options] version PKG-DIRECTORY
mk_exim_release [options] --quick [version] PKG-DIRECTORY

=head1 DESCRIPTION

B<mk_exim_release> builds an exim release.

Starting in a populated git repo that has already been
 tagged for
release it builds docs, packages etc.  Parameter is the version number
to build as - ie 4.72 4.72-RC1, 4.86.1, etc, without any prefix.
```

This scripts expects to find a tag "exim-<version>".

After creating the release files, they should be signed. There is another
helper for creating the signatures:
F<release-process/scripts/sign_exim_packages>.

Call B<mk_exim_release> about like this:

```
release-process/scripts/mk_exim_release 4.99 OUT-DIR
```

=head1 OPTIONS

=over 4

=item B<--[no]cleanup>

Do (or do not) cleanup the tmp directory at exit (default: do cleanup)

=item B<--compressors> [I<action>]I<compressor[I<action>$<compressor>]...

A list of compressors to use. Currently the default list is
B<gzip>, B<xz>, and B<bzip2>, with B<lzip> optionally to be enabled.

I<action> can be "+" (add), "-" (remove), and "=" (set).

=item B<--debug[=I<item>]>

Forces debug mode. If (default: no debug info)

=over 4

=item item: B<version>

Output the parsed/found version number and exit.

=back

=item
B<--[no]delete>

Delete a pre-existing tmp- and package-directory at start. (default: don't delete)

=item B<--[no]doc>

Do (not) build the documentation. This needs C<gnu-make> (default: build the docs)

=item B<--[no]help>

Display short help and exit cleanly. (default: don't do that)

=item B<--key> I<GPG key>

Use this GPG key for signing. If nothing is specified the first one of this list
is used:

=over 8

=item - git config user.signingkey

=item - environment C<EXIM_KEY>

=item - default GPG key

=back

=item B<--make-cmd> I<cmd>

Force the use of a specific C<make> command. This may be necessary if C<make> is not
C<gmake>. This is necessary to build the docs. (default: C<make>)

=item B<--[no]man>

Display man page and exit cleanly. (default: don't do that)

=item B<--quick>

Create a quick release. The I<version> mandatory argument needs to be a git commit-ish.
(try I<master> or I<HEAD> or similar). This mode switches off the
website creation (which can be enabled
by B<--web> again).

=item B<--[no]sign>

Sign the created archive files (and the sizes.txt). (default: sign)

=item B<--[no]sizes>

Write the sizes information to F<sizes.txt>. (default: write sizes)

=item B<--tar-cmd> I<cmd>

Use to override the path to the C<tar> command. Need GNU tar in case
I<lzip> is selected. (default: C<gtar>, if not found, use C<tar>).

=item B<--tmpdir> I<dir>

Change the name of the tmp directory (default: temporary directory)

=item B<--verbose>

Force verbose mode. (default: no verbosity)

=item B<--[no]web>

Control the creation of the website. For creation of the website, the F<../exim-website>
(but see the B<website-base> option) directory must exist. (default: create the website, except when
in B<quick> mode)

=item B<--website-base> I<dir>

Base directory for the web site generation (default: F<../exim-website>)

=item B<-workspace>|B<--tmp> I<directory>

During release gerneration temporary storage is necessary. (default: F<exim-packaging-XXXX>
under
 your system's default temporary directory (typically this is F</tmp>)).

=back

=head1 AUTHOR

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some changes by Heiko Schlittermann <hs@schlittermann.de>

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=cut
vim: set sw=4 et :

Found in path(s):
* /opt/cola/permits/1892616876_1713765866.8546398/0/mk-exim-release-tar/mk_exim_release.txt

1.195 util-linux 2.33.1-0.1+deb10u1

1.195.1 Available under license :

NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

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

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

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

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

```
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  </xsl:text>
</xsl:variable>

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

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

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

Internet Engineering Task Force R.E. Gilligan (FreeGate)
INTERNET-DRAFT S. Thomson (Bellcore)
Obsoletes RFC 2133 Jim Bound (Compaq)
W. R. Stevens (Consultant)
January 25, 1999

Basic Socket Interface Extensions for IPv6

<draft-ietf-ipngwg-bsd-api-new-06.txt>

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Abstract

The de facto standard application program interface (API) for TCP/IP applications is the "sockets" interface. Although this API was developed for Unix in the early 1980s it has also been implemented on a wide variety of non-Unix systems. TCP/IP applications written using the sockets API have in
the past enjoyed a high degree of portability and we would like the same portability with IPv6 applications. But changes are required to the sockets API to support IPv6 and this memo describes these changes. These include a new socket address structure to carry IPv6 addresses, new address conversion functions, and some new socket options. These extensions are designed to provide access to the basic IPv6 features required by TCP and UDP applications, including multicasting, while introducing a minimum of change into the system and providing complete compatibility for existing IPv4 applications. Additional extensions for advanced IPv6 features (raw sockets and access to the IPv6 extension headers) are defined in another document [4].

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1. Introduction

While IPv4 addresses are 32 bits long, IPv6 interfaces are identified by

128-bit addresses. The socket interface makes the size of an IP address quite visible to an application; virtually all TCP/IP applications for BSD-based systems have knowledge of the size of an IP address. Those parts of the API that expose the addresses must be changed to accommodate the larger IPv6 address size. IPv6 also introduces new features (e.g., traffic class and flowlabel), some of which must be made visible to applications via the API. This memo defines a set of extensions to the socket interface to support the larger address size and new features of IPv6.

2. Design Considerations

There are a number of important considerations in designing changes to this well-worn API:

- The API changes should provide both source and binary compatibility for programs written to the original API. That is, existing program binaries should continue to operate when run on a system supporting the new API. In addition, existing applications that are re-compiled and run on a system supporting the new API should continue to operate. Simply put, the API changes for IPv6 should not break existing programs. An additonal mechanism for implementations to verify this is to verify the new symbols are protected by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

- The changes to the API should be as small as possible in order to simplify the task of converting existing IPv4 applications to IPv6.

- Where possible, applications should be able to use this API to interoperate with both IPv6 and IPv4 hosts. Applications should not need to know which type of host they are communicating with.

- IPv6 addresses carried in data structures should be 64-bit aligned. This is necessary in order to obtain optimum performance on 64-bit machine architectures.

Because of the importance of providing IPv4 compatibility in the API, these extensions are explicitly designed to operate on machines that provide complete support for both IPv4 and IPv6. A subset of this API could probably be designed for operation on systems

that support only
IPv6. However, this is not addressed in this memo.

2.1 What Needs to be Changed

The socket interface API consists of a few distinct components:

- Core socket functions.

- Address data structures.

- Name-to-address translation functions.

- Address conversion functions.

The core socket functions -- those functions that deal with such things as setting up and tearing down TCP connections, and sending and receiving UDP packets -- were designed to be transport independent. Where protocol addresses are passed as function arguments, they are carried via opaque pointers. A protocol-specific address data structure is defined for each protocol that the socket functions support. Applications must cast pointers to these protocol-specific address structures into pointers to the generic "sockaddr" address structure when using the socket functions. These functions need not change for IPv6, but a new IPv6-specific address data structure is needed.

The "sockaddr_in" structure is the protocol-specific data structure for IPv4. This data structure actually includes 8-octets of unused space, and it is tempting to try to use this space to adapt the sockaddr_in structure to IPv6. Unfortunately, the sockaddr_in structure is not large enough to hold the 16-octet IPv6 address as well as the other information (address family and port number) that is needed. So a new address data structure must be defined for IPv6.

IPv6 addresses are scoped [2] so they could be link-local, site, organization, global, or other scopes at this time undefined. To support applications that want to be able to identify a set of

interfaces for a specific scope, the IPv6 sockaddr_in structure must support a field that can be used by an implementation to identify a set of interfaces identifying the scope for an IPv6 address.

The name-to-address translation functions in the socket interface are gethostbyname() and gethostbyaddr(). These are left as is and new functions are defined to support IPv4 and IPv6. Additionally, the POSIX 1003.g draft [3] specifies a new nodename-to-address translation function which is protocol independent. This function can also be used with IPv4 and IPv6.

The address conversion functions -- inet_ntoa() and inet_addr() -- convert IPv4 addresses between binary and printable form. These functions are quite specific to 32-bit IPv4 addresses. We have designed two analogous functions that convert both IPv4 and IPv6 addresses, and carry an address type parameter so that they can be extended to other protocol families as well.

Finally, a few miscellaneous features are needed to support IPv6. New interfaces are needed to support the IPv6 traffic class, flow label, and hop limit header fields. New socket options are needed to control the sending and receiving of IPv6 multicast packets.

The socket interface will be enhanced in the future to provide access to other IPv6 features. These extensions are described in [4].

2.2 Data Types

The data types of the structure elements given in this memo are intended to be examples, not absolute requirements. Whenever possible, data types from Draft 6.6 (March 1997) of POSIX 1003.1g are used: uintN_t means an unsigned integer of exactly N bits (e.g., uint16_t). We also assume the argument data types from 1003.1g when possible (e.g., the final argument to setsockopt() is a size_t value). Whenever buffer

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sizes are specified, the POSIX 1003.1 size_t data type is used (e.g., the two length arguments to getnameinfo()).

2.3 Headers

When function prototypes and structures are shown we show the headers that must be #included to cause that item to be defined.

2.4 Structures

When structures are described the members shown are the ones that must appear in an implementation. Additional, nonstandard members may also be defined by an implementation. As an additional precaution nonstandard members could be verified by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

The ordering shown for the members of a structure is the recommended ordering, given alignment considerations of multibyte members, but an implementation may order the members differently.

3. Socket Interface

This section specifies the socket interface changes for IPv6.

3.1 IPv6 Address Family and Protocol Family

A new address family name, AF_INET6, is defined in <sys/socket.h>. The AF_INET6 definition distinguishes between the original sockaddr_in address data structure, and the new sockaddr_in6 data structure.

A new protocol family name, PF_INET6, is defined in <sys/socket.h>. Like most of the other protocol family names, this will usually be defined to have the same value as the corresponding address family name:

```
#define PF_INET6        AF_INET6
```

The PF_INET6 is used in the first argument to the socket() function to

indicate that an IPv6 socket is being created.

3.2 IPv6 Address Structure

A new in6_addr structure holds a single IPv6 address and is defined as a result of including <netinet/in.h>:

```
  struct in6_addr {
      uint8_t  s6_addr[16];      /* IPv6 address */
  };
```

This data structure contains an array of sixteen 8-bit elements, which make up one 128-bit IPv6 address. The IPv6 address is stored in network byte order.

The structure in6_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a manner similar to BSD implementations of "struct in_addr". Those additional
 implementation details are omitted here for simplicity.

An example is as follows:

```
struct in6_addr {
    union {
        uint8_t  _S6_u8[16];
        uint32_t _S6_u32[4];
        uint64_t _S6_u64[2];
    } _S6_un;
};
#define s6_addr _S6_un._S6_u8
```

3.3 Socket Address Structure for 4.3BSD-Based Systems

In the socket interface, a different protocol-specific data structure is defined to carry the addresses for each protocol suite. Each protocol-

specific data structure is designed so it can be cast into a protocol-independent data structure -- the "sockaddr" structure. Each has a "family" field that overlays the "sa_family" of the sockaddr data structure. This field identifies the type of the data structure.

The sockaddr_in structure is the protocol-specific address data structure for IPv4. It is used to pass addresses between applications and the system in the socket functions. The following sockaddr_in6 structure holds IPv6 addresses and is defined as a result of including
the <netinet/in.h> header:

```
struct sockaddr_in6 {
    sa_family_t     sin6_family;    /* AF_INET6 */
    in_port_t       sin6_port;      /* transport layer port # */
    uint32_t        sin6_flowinfo;  /* IPv6 traffic class & flow info */
    struct in6_addr sin6_addr;      /* IPv6 address */
    uint32_t        sin6_scope_id;  /* set of interfaces for a scope */
};
```

This structure is designed to be compatible with the sockaddr data structure used in the 4.3BSD release.

The sin6_family field identifies this as a sockaddr_in6 structure. This

field overlays the sa_family field when the buffer is cast to a sockaddr data structure. The value of this field must be AF_INET6.

The sin6_port field contains the 16-bit UDP or TCP port number. This field is used in the same way as the sin_port field of the sockaddr_in structure.
The port number is stored in network byte order.

The sin6_flowinfo field is a 32-bit field that contains two pieces of information: the traffic class and the flow label. The contents and interpretation of this member is specified in [1]. The sin6_flowinfo field SHOULD be set to zero by an implementation prior to using the sockaddr_in6 structure by an application on receive operations.

The sin6_addr field is a single in6_addr structure (defined in the previous section). This field holds one 128-bit IPv6 address. The

address is stored in network byte order.

The ordering of elements in this structure is specifically designed so that when sin6_addr field is aligned on a 64-bit boundary, the start of the structure will also be aligned on a 64-bit boundary. This is done for optimum performance on 64-bit architectures.

The sin6_scope_id field is a 32-bit integer that identifies a set of interfaces as appropriate for the scope of the address carried in the sin6_addr
field. For a link scope sin6_addr sin6_scope_id would be an interface index. For a site scope sin6_addr, sin6_scope_id would be a site identifier. The mapping of sin6_scope_id to an interface or set of interfaces is left to implementation and future specifications on the subject of site identifiers.

Notice that the sockaddr_in6 structure will normally be larger than the generic sockaddr structure. On many existing implementations the sizeof(struct sockaddr_in) equals sizeof(struct sockaddr), with both being 16 bytes. Any existing code that makes this assumption needs to be examined carefully when converting to IPv6.

3.4 Socket Address Structure for 4.4BSD-Based Systems

The 4.4BSD release includes a small, but incompatible change to the socket interface. The "sa_family" field of the sockaddr data structure was changed from a 16-bit value to an 8-bit value, and the space saved used to hold a length field, named "sa_len". The sockaddr_in6 data structure given in the previous
section cannot be correctly cast into
the newer sockaddr data structure. For this reason, the following alternative IPv6 address data structure is provided to be used on systems based on 4.4BSD. It is defined as a result of including the <netinet/in.h> header.

```
struct sockaddr_in6 {
    uint8_t         sin6_len;       /* length of this struct */
    sa_family_t     sin6_family;    /* AF_INET6 */
    in_port_t       sin6_port;      /* transport layer port # */
    uint32_t        sin6_flowinfo;  /* IPv6 flow information */
    struct in6_addr sin6_addr;      /* IPv6 address */
    uint32_t        sin6_scope_id;  /* set of interfaces for a scope */
};
```


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The only differences between this data structure and the 4.3BSD variant are the inclusion of the length field, and the change of the family field to a 8-bit data type.
The definitions of all the other fields are identical to the structure defined in the previous section.

Systems that provide this version of the sockaddr_in6 data structure must also declare SIN6_LEN as a result of including the <netinet/in.h> header. This macro allows applications to determine whether they are being built on a system that supports the 4.3BSD or 4.4BSD variants of the data structure.

3.5 The Socket Functions

Applications call the socket() function to create a socket descriptor that represents a communication endpoint. The arguments to the socket() function tell the system which protocol to use, and what format address structure will be used in subsequent functions. For example, to create an IPv4/TCP socket, applications make the call:

```
s = socket(PF_INET, SOCK_STREAM, 0);
```

To create an IPv4/UDP socket, applications make the call:

```
s = socket(PF_INET, SOCK_DGRAM, 0);
```

Applications may create IPv6/TCP and IPv6/UDP sockets by simply using the constant PF_INET6
instead of PF_INET in the first argument. For example, to create an IPv6/TCP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_STREAM, 0);
```

To create an IPv6/UDP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_DGRAM, 0);
```

Once the application has created a PF_INET6 socket, it must use the sockaddr_in6 address structure when passing addresses in to the system. The functions that the application uses to pass addresses into the system are:

bind()
connect()
sendmsg()
sendto()

The system will use the sockaddr_in6 address structure to return addresses to applications that are using PF_INET6 sockets. The functions that return an address from the system to an application are:

accept()
recvfrom()
recvmsg()
getpeername()
getsockname()

No changes to the syntax of the socket functions are needed to support

IPv6, since all of the "address carrying" functions use an opaque address pointer, and carry an address length as a function argument.

3.6 Compatibility with IPv4 Applications

In order to support the large base of applications using the original API, system implementations must provide complete source and binary compatibility with the original API. This means that systems must continue to support PF_INET sockets and the sockaddr_in address structure. Applications must be able to create IPv4/TCP and IPv4/UDP sockets using the PF_INET constant in the socket() function, as described in the previous section. Applications should be able to hold a combination of IPv4/TCP, IPv4/UDP, IPv6/TCP and IPv6/UDP sockets simultaneously within the same process.

Applications using the original API should continue to operate as they did on systems supporting only IPv4. That is, they should continue to interoperate with IPv4 nodes.

3.7 Compatibility with IPv4 Nodes

The
API also provides a different type of compatibility: the ability for IPv6 applications to interoperate with IPv4 applications. This feature uses the IPv4-mapped IPv6 address format defined in the IPv6 addressing architecture specification [2]. This address format allows the IPv4 address of an IPv4 node to be represented as an IPv6 address. The IPv4 address is encoded into the low-order 32 bits of the IPv6 address, and the high-order 96 bits hold the fixed prefix 0:0:0:0:0:FFFF. IPv4-mapped addresses are written as follows:

```
::FFFF:<IPv4-address>
```

These addresses can be generated automatically by the getipnodebyname() function when the specified host has only IPv4 addresses (as described in Section 6.1).

Applications may use PF_INET6 sockets to open TCP connections to IPv4 nodes, or send UDP packets to IPv4 nodes, by simply encoding the destination's IPv4 address as an IPv4-mapped IPv6 address, and passing that address, within a sockaddr_in6 structure, in the connect()
or
sendto() call. When applications use PF_INET6 sockets to accept TCP connections from IPv4 nodes, or receive UDP packets from IPv4 nodes, the system returns the peer's address to the application in the accept(), recvfrom(), or getpeername() call using a sockaddr_in6 structure encoded this way.

Few applications will likely need to know which type of node they are interoperating with. However, for those applications that do need to know, the IN6_IS_ADDR_V4MAPPED() macro, defined in Section 6.7, is provided.

3.8 IPv6 Wildcard Address

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While the bind() function allows applications to select the source IP address of UDP packets and TCP connections, applications often want the system to select the source address for them. With IPv4, one specifies the address as the symbolic constant INADDR_ANY (called the "wildcard" address) in the
bind() call, or simply omits the bind() entirely.

Since the IPv6 address type is a structure (struct in6_addr), a symbolic constant can be used to initialize an IPv6 address variable, but cannot be used in an assignment. Therefore systems provide the IPv6 wildcard address in two forms.

The first version is a global variable named "in6addr_any" that is an in6_addr structure. The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_any;
```

Applications use in6addr_any similarly to the way they use INADDR_ANY in IPv4. For example, to bind a socket to port number 23, but let the system select the source address, an application could use the following code:

```
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_any;  /* structure assignment */
 . . .
if (bind(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
        . .
.
```

The other version is a symbolic constant named IN6ADDR_ANY_INIT and is defined in <netinet/in.h>. This constant can be used to initialize an in6_addr structure:

```
struct in6_addr anyaddr = IN6ADDR_ANY_INIT;
```

Note that this constant can be used ONLY at declaration time. It can not be used to assign a previously declared in6_addr structure. For example, the following code will not work:

```
/* This is the WRONG way to assign an unspecified address */
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_addr = IN6ADDR_ANY_INIT; /* will NOT compile */
```

Be aware that the IPv4 INADDR_xxx constants are all defined in host byte order but the IPv6 IN6ADDR_xxx constants and the IPv6 in6addr_xxx externals are defined in network byte order.

3.9 IPv6 Loopback Address

Applications may need to send UDP packets to, or originate TCP connections
to, services residing on the local node. In IPv4, they can do this by using the constant IPv4 address INADDR_LOOPBACK in their connect(), sendto(), or sendmsg() call.

IPv6 also provides a loopback address to contact local TCP and UDP services. Like the unspecified address, the IPv6 loopback address is provided in two forms -- a global variable and a symbolic constant.

The global variable is an in6_addr structure named "in6addr_loopback." The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_loopback;
```

Applications use in6addr_loopback as they would use INADDR_LOOPBACK in IPv4 applications (but beware of the byte ordering difference mentioned at the end of the previous section). For example, to open a TCP connection to the local telnet server, an application could use the following code:

```
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
```

```
 sin6.sin6_addr = in6addr_loopback;  /* structure assignment */
   . . .
  if (connect(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
          . . .
```

The symbolic constant is named IN6ADDR_LOOPBACK_INIT and is defined in <netinet/in.h>. It can be used at declaration time ONLY; for example:

```
  struct in6_addr loopbackaddr = IN6ADDR_LOOPBACK_INIT;
```

Like IN6ADDR_ANY_INIT, this constant cannot be used in an assignment to a previously declared IPv6 address variable.

3.10 Portability Additions

One simple addition to the sockets API that can help application writers is the "struct sockaddr_storage". This data structure can simplify writing code portable across multiple address families and platforms. This data structure is designed with the following goals.

- It has a large enough implementation specific maximum size to store the desired set of protocol specific socket address data structures. Specifically, it is at least large enough to accommodate sockaddr_in

  and sockaddr_in6 and possibly other protocol specific socket addresses too.
- It is aligned at an appropriate boundary so protocol specific socket address data structure pointers can be cast to it and access their fields without alignment problems. (e.g. pointers to sockaddr_in6 and/or sockaddr_in can be cast to it and access fields without alignment

problems).
- It has the initial field(s) isomorphic to the fields of the "struct sockaddr" data structure on that implementation which can be used as a discriminants for deriving the protocol in use. These initial field(s) would on most implementations either be a single field of type "sa_family_t" (isomorphic to sa_family field, 16 bits) or two fields of type uint8_t and sa_family_t respectively, (isomorphic to sa_len and sa_family_t,

8 bits each).

An example implementation design of such a data structure would be as follows.

```
/*
* Desired design of maximum size and alignment
*/
#define _SS_MAXSIZE    128  /* Implementation specific max size */
#define _SS_ALIGNSIZE  (sizeof (int64_t))
                    /* Implementation specific desired alignment */
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE   (_SS_ALIGNSIZE - sizeof (sa_family_t))
#define _SS_PAD2SIZE   (_SS_MAXSIZE - (sizeof (sa_family_t)+
                     _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  sa_family_t  __ss_family;     /* address family */
  /* Following fields are implementation specific */
  char      __ss_pad1[_SS_PAD1SIZE];
          /* 6 byte pad, this is to make implementation
          /* specific pad up to alignment field that */
          /* follows explicit in the data structure */
  int64_t   __ss_align;     /* field to force
 desired structure */
           /* storage alignment */
  char      __ss_pad2[_SS_PAD2SIZE];
          /* 112 byte pad to achieve desired size, */
          /* _SS_MAXSIZE value minus size of ss_family */
          /* __ss_pad1, __ss_align fields is 112 */
};
```

On implementations where sockaddr data structure includes a "sa_len", field this data structure would look like this:

```
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE (_SS_ALIGNSIZE -
                    (sizeof (uint8_t) + sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
                     _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  uint8_t      __ss_len;        /* address length */
  sa_family_t  __ss_family;     /* address family */
  /* Following fields are implementation specific */
  char         __ss_pad1[_SS_PAD1SIZE];
```

```
            /* 6 byte pad, this is to make implementation
             /* specific pad up to alignment field that */
            /* follows explicit in the data structure */
  int64_t      __ss_align;  /* field to force desired structure */
```



```
            /* storage alignment */
  char        __ss_pad2[_SS_PAD2SIZE];
            /* 112 byte pad to achieve desired size, */
            /* _SS_MAXSIZE value minus size of ss_len, */
            /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};
```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "__ss_align" along "__ss_pad1" is used to force a 64-bit alignment which covers proper alignment good enough for needs of sockaddr_in6 (IPv6), sockaddr_in (IPv4) address data structures. The size of padding fields __ss_pad1 depends on the chosen alignment boundary. The size of padding field __ss_pad2 depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in the above example by implementation specific (not required) constants _SS_MAXSIZE (chosen value 128) and _SS_ALIGNMENT (with chosen value 8). Constants _SS_PAD1SIZE (derived value 6) and _SS_PAD2SIZE (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

The sockaddr_storage structure solves the problem of declaring storage for automatic variables which is large enough and aligned enough for storing socket address data structure of any family. For example, code with a file descriptor and without the context of the address family can pass a pointer to a variable of this type where a pointer to a socket address structure is expected in calls such as getpeername() and determine the address family by accessing the received content after the call.

The sockaddr_storage structure may also be useful and applied to certain other interfaces where a generic socket address large enough and aligned

for use with multiple address families may be needed. A discussion of those interfaces is outside the scope of this document.

Also, much existing code assumes that any socket address structure can fit in a generic sockaddr structure. While this has been true for IPv4 socket address structures, it has always been false for Unix domain socket address structures (but in practice this has not been a problem) and it is also false for IPv6 socket address structures (which can be a problem).

So now an application can do the following:

```
struct sockaddr_storage __ss;
struct sockaddr_in6 *sin6;
sin6 = (struct sockaddr_in6 *) &__ss;
```

4. Interface Identification

This API uses an interface index (a small positive integer) to identify the local interface on which a multicast group is joined (Section 5.3). Additionally, the advanced API [4] uses these same interface indexes to identify the interface on which a datagram is received, or to specify

the interface on which a datagram is to be sent.

Interfaces are normally known by names such as "le0", "sl1", "ppp2", and the like. On Berkeley-derived implementations, when an interface is made known to the system, the kernel assigns a unique positive integer value (called the interface index) to that interface. These are small positive integers that start at 1. (Note that 0 is never used for an interface index.) There may be gaps so that there is no current interface for a particular positive interface index.

This API defines two functions that map between an interface name and index, a third function that returns all the interface names and indexes, and a fourth function to return the dynamic memory allocated by the previous function. How these functions are implemented is left up

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to the implementation. 4.4BSD implementations can implement these functions using the existing sysctl() function with the NET_RT_IFLIST command. Other implementations may wish to use ioctl() for this purpose.

4.1 Name-to-Index

The first function maps an interface name into its corresponding index.

```
#include <net/if.h>

unsigned int  if_nametoindex(const char *ifname);
```

If the specified interface name does not exist, the return value is 0, and errno is set to ENXIO. If there was a system error (such as running out of memory), the return value is 0 and errno is set to the proper value (e.g., ENOMEM).

4.2 Index-to-Name

The second function maps an interface index into its corresponding name.

```
#include <net/if.h>

char  *if_indextoname(unsigned
int ifindex, char *ifname);
```

The ifname argument must point to a buffer of at least IF_NAMESIZE bytes into which the interface name corresponding to the specified index is returned. (IF_NAMESIZE is also defined in <net/if.h> and its value includes a terminating null byte at the end of the interface name.) This pointer is also the return value of the function. If there is no interface corresponding to the specified index, NULL is returned, and errno is set to ENXIO, if there was a system error (such as running out of memory), if_indextoname returns NULL and errno would be set to the proper value (e.g., ENOMEM).

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4.3 Return All Interface Names and Indexes

The if_nameindex structure holds the information about a single interface and is defined as a result of including the <net/if.h> header.

```
struct if_nameindex {
  unsigned int   if_index;  /* 1, 2, ... */
  char         *if_name;   /* null terminated name: "le0", ... */
};
```

The final function returns an array of if_nameindex structures, one structure per interface.

```
struct if_nameindex  *if_nameindex(void);
```

The end of the array of structures is indicated by a structure with an if_index of 0 and an if_name of NULL. The function returns a NULL pointer upon an error, and would set errno to the appropriate value.

The memory used for this array of structures along with the interface names pointed to by the if_name members is obtained dynamically. This memory is freed by the next function.

4.4 Free Memory

The following function frees the dynamic memory that was allocated by if_nameindex().

```
#include <net/if.h>

void  if_freenameindex(struct if_nameindex *ptr);
```

The argument to this function must be a pointer that was returned by if_nameindex().

Currently net/if.h doesn't have prototype definitions for functions and it is
 recommended that these definitions be defined in net/if.h as well and the struct if_nameindex{}.

5. Socket Options

A number of new socket options are defined for IPv6. All of these new options are at the IPPROTO_IPV6 level. That is, the "level" parameter in the getsockopt() and setsockopt() calls is IPPROTO_IPV6 when using these options. The constant name prefix IPV6_ is used in all of the new socket options. This serves to clearly identify these options as applying to IPv6.

The declaration for IPPROTO_IPV6, the new IPv6 socket options, and related constants defined in this section are obtained by including the header <netinet/in.h>.

5.1 Unicast Hop Limit

A new setsockopt() option controls the hop limit used in outgoing unicast IPv6 packets. The name of this option is IPV6_UNICAST_HOPS, and it is used at the IPPROTO_IPV6 layer. The following example illustrates how it is used:

```
int  hoplimit = 10;

if (setsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
            (char *) &hoplimit, sizeof(hoplimit)) == -1)
    perror("setsockopt IPV6_UNICAST_HOPS");
```

When the IPV6_UNICAST_HOPS option is set with setsockopt(), the option value given is used as the hop limit for all subsequent unicast packets sent via that socket. If the option is not set, the system selects a default value. The integer hop limit value (called x) is interpreted as follows:

```
x < -1:        return an error of EINVAL
x == -1:       use kernel default
0 <= x <= 255: use x
x >= 256:      return an error of EINVAL
```

The IPV6_UNICAST_HOPS option may be used with getsockopt() to determine the hop limit value that the system will use for subsequent unicast packets sent via that socket. For example:

```
int  hoplimit;
size_t  len = sizeof(hoplimit);

if (getsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,

    (char *) &hoplimit, &len) == -1)
    perror("getsockopt IPV6_UNICAST_HOPS");
else
    printf("Using %d for hop limit.\n", hoplimit);
```

5.2 Sending and Receiving Multicast Packets

IPv6 applications may send UDP multicast packets by simply specifying an IPv6 multicast address in the address argument of the sendto() function.

Three socket options at the IPPROTO_IPV6 layer control some of the parameters for sending multicast packets. Setting these options is not required: applications may send multicast packets without using these options. The setsockopt() options for controlling the sending of multicast packets are summarized below. These three options can also be used with getsockopt().

IPV6_MULTICAST_IF

Set the interface to use for outgoing multicast packets.
The argument is the index of the interface to use.

Argument type: unsigned int

IPV6_MULTICAST_HOPS

Set the hop limit to use for outgoing multicast packets.

(Note a separate option - IPV6_UNICAST_HOPS - is
provided to set the hop limit to use for outgoing
unicast packets.)

The interpretation of the argument is the same
as for the IPV6_UNICAST_HOPS option:

```
x < -1:        return an error of EINVAL
x == -1:       use kernel default
0 <= x <= 255: use x
x >= 256:      return an error of EINVAL
```

If IPV6_MULTICAST_HOPS is not set, the default is 1
(same as IPv4 today)

Argument type: int

IPV6_MULTICAST_LOOP

If a multicast datagram is sent to a group to which the sending host
itself belongs (on the outgoing interface), a copy of the datagram is
looped back by the IP layer for local delivery if this option is set to
1. If this option is set to 0 a copy is not looped back. Other option
values
return an error of EINVAL.

If IPV6_MULTICAST_LOOP is not set, the default is 1 (loopback; same as
IPv4 today).

Argument type: unsigned int

The reception of multicast packets is controlled by the two setsockopt()
options summarized below. An error of EOPNOTSUPP is returned if these
two options are used with getsockopt().

IPV6_JOIN_GROUP

Join a multicast group on a specified local interface.
If the interface index is specified as 0,
the kernel chooses the local interface.
For example, some kernels look up the multicast group
in the normal IPv6 routing table and using the resulting interface.

Argument type: struct ipv6_mreq

IPV6_LEAVE_GROUP

Leave a multicast group on a specified interface.

Argument type: struct ipv6_mreq

The argument type of both of these options is the ipv6_mreq structure, defined as a result of including the <netinet/in.h> header;

```
 struct ipv6_mreq {
    struct in6_addr ipv6mr_multiaddr;
/* IPv6 multicast addr */
```



```
    unsigned int    ipv6mr_interface; /* interface index */
 };
```

Note that to receive multicast datagrams a process must join the multicast group and bind the UDP port to which datagrams will be sent. Some processes also bind the multicast group address to the socket, in addition to the port, to prevent other datagrams destined to that same port from being delivered to the socket.

6. Library Functions

New library functions are needed to perform a variety of operations with IPv6 addresses. Functions are needed to lookup IPv6 addresses in the Domain Name System (DNS). Both forward lookup (nodename-to-address translation) and reverse lookup (address-to-nodename translation) need to be supported. Functions are also needed to convert IPv6 addresses between their binary and textual form.

We note that
the two existing functions, gethostbyname() and gethostbyaddr(), are left as-is. New functions are defined to handle both IPv4 and IPv6 addresses.

6.1 Nodename-to-Address Translation

The commonly used function gethostbyname() is inadequate for many applications, first because it provides no way for the caller to specify

anything about the types of addresses desired (IPv4 only, IPv6 only, IPv4-mapped IPv6 are OK, etc.), and second because many implementations of this function are not thread safe. RFC 2133 defined a function named gethostbyname2() but this function was also inadequate, first because its use required setting a global option (RES_USE_INET6) when IPv6 addresses were required, and second because a flag argument is needed to provide the caller with additional control over the types of addresses required.

The following function is new and must be thread safe:

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyname(const char *name, int
af, int flags
                                int *error_num);
```

The name argument can be either a node name or a numeric address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). The af argument specifies the address family, either AF_INET or AF_INET6. The error_num value is returned to the caller, via a pointer, with the appropriate error code in error_num, to support thread safe error code returns. error_num will be set to one of the following values:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly
transient error occurred, such as a
failure of a server to respond.

The flags argument specifies the types of addresses that are searched for, and the types of addresses that are returned. We note that a special flags value of AI_DEFAULT (defined below) should handle most applications.

That is, porting simple applications to use IPv6 replaces the call

```
hptr = gethostbyname(name);
```

with

```
hptr = getipnodebyname(name, AF_INET6, AI_DEFAULT, &error_num);
```

and changes any subsequent error diagnosis code to use error_num instead of externally declared variables, such as h_errno.

Applications desiring finer control over the types of addresses searched for and returned, can specify other combinations of the flags argument.

A flags of 0 implies a strict interpretation of the af argument:

- If flags is 0 and af is AF_INET, then the caller wants only IPv4 addresses. A query is made for A records. If successful, the IPv4 addresses are returned and the h_length
member of the hostent
structure will be 4, else the function returns a NULL pointer.

- If flags is 0 and if af is AF_INET6, then the caller wants only IPv6 addresses. A query is made for AAAA records. If successful, the IPv6 addresses are returned and the h_length member of the hostent structure will be 16, else the function returns a NULL pointer.

Other constants can be logically-ORed into the flags argument, to modify the behavior of the function.

- If the AI_V4MAPPED flag is specified along with an af of AF_INET6, then the caller will accept IPv4-mapped IPv6 addresses. That is, if no AAAA records are found then a query is made for A records and any found are returned as IPv4-mapped IPv6 addresses (h_length will be 16). The AI_V4MAPPED flag is ignored unless af equals AF_INET6.

- The AI_ALL flag is used in conjunction with the AI_V4MAPPED flag, and is only used with the IPv6 address family. When AI_ALL is logically or'd with AI_V4MAPPED flag then the caller wants all addresses: IPv6 and IPv4-mapped IPv6. A query is first made for AAAA records and if successful, the IPv6 addresses are returned. Another query is then made for A records and any found are returned as IPv4-mapped IPv6 addresses. h_length will be 16. Only if both queries fail does the function return a NULL pointer. This flag is ignored unless af equals AF_INET6.

- The AI_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

  For example, if the node has no IPv6 source addresses configured, and af equals
AF_INET6, and the node name being looked up has both AAAA and A records, then:

  (a) if only AI_ADDRCONFIG is specified, the function returns a NULL pointer;
  (b) if AI_ADDRCONFIG | AI_V4MAPPED is specified, the A records are returned as IPv4-mapped IPv6 addresses;

The special flags value of AI_DEFAULT is defined as

```
#define  AI_DEFAULT  (AI_V4MAPPED | AI_ADDRCONFIG)
```

We noted that the getipnodebyname() function must allow the name argument to be either a node name or a literal address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). This saves applications from having to call inet_pton() to handle literal address strings.

There are four scenarios based on the type of literal address string and the value of the af argument.

The two simple cases are:

When name is a dotted-decimal IPv4 address and af equals AF_INET, or when name is an IPv6 hex address and af equals AF_INET6. The members of the returned hostent
structure are: h_name points to a copy of the name argument, h_aliases is a NULL pointer, h_addrtype is a copy of the af argument, h_length is either 4 (for AF_INET) or 16 (for AF_INET6), h_addr_list[0] is a pointer to the 4-byte or 16-byte binary address, and h_addr_list[1] is a NULL pointer.

When name is a dotted-decimal IPv4 address and af equals AF_INET6, and flags equals AI_V4MAPPED, an IPv4-mapped IPv6 address is returned: h_name points to an IPv6 hex address containing the IPv4-mapped IPv6 address, h_aliases is a NULL pointer, h_addrtype is AF_INET6, h_length is 16, h_addr_list[0] is a pointer to the 16-byte binary address, and h_addr_list[1] is a NULL pointer. If AI_V4MAPPED is set (with or without AI_ALL) return IPv4-mapped otherwise return NULL.

It is an error when name is an IPv6 hex address and af equals AF_INET. The function's return value is a NULL pointer and error_num equals HOST_NOT_FOUND.

6.2 Address-To-Nodename Translation

The following function has the same arguments as the existing gethostbyaddr() function, but adds an error number.

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyaddr(const void *src, size_t len, int af,
                                int *error_num);
```

As with getipnodebyname(), getipnodebyaddr() must be thread safe. The error_num value is returned to the caller with the appropriate error code, to support thread safe error code returns. The following error conditions may be returned for error_num:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognized the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

One possible source of confusion is the handling of IPv4-mapped IPv6 addresses and IPv4-compatible IPv6 addresses, but the following logic should apply.

1. If af is AF_INET6, and if len equals 16, and if the IPv6 address is an IPv4-mapped IPv6 address or an IPv4-compatible IPv6 address, then skip over the first 12 bytes of the IPv6 address, set af to AF_INET, and set len to 4.

2. If af is AF_INET, lookup the name for the given IPv4 address (e.g., query for a PTR record in the in-addr.arpa domain).

3. If af is AF_INET6, lookup the name for the given IPv6 address (e.g., query for a PTR record in the ip6.int domain).

4. If the function is returning success, then the single address that is returned in the hostent structure is a copy of the first argument to the function with the same address family that was passed as

   an argument to this function.

All four steps listed are performed, in order. Also note that the IPv6 hex addresses "::" and "::1" MUST NOT be treated as IPv4-compatible

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addresses, and if the address is "::", HOST_NOT_FOUND MUST be returned
and a query of the address not performed.

Also for the macro in section 6.7 IN6_IS_ADDR_V4COMPAT MUST return false
for "::" and "::1".

6.3 Freeing memory for getipnodebyname and getipnodebyaddr

The hostent structure does not change from its existing definition.
This structure, and the information pointed to by this structure, are
dynamically allocated by getipnodebyname and getipnodebyaddr. The
following function frees this memory:

```
#include <netdb.h>

void freehostent(struct hostent *ptr);
```

6.4 Protocol-Independent Nodename and Service Name Translation

Nodename-to-address translation
is done in a protocol-independent
fashion using the getaddrinfo() function that is taken from the
Institute of Electrical and Electronic Engineers (IEEE) POSIX 1003.1g
(Protocol Independent Interfaces) draft specification [3].

The official specification for this function will be the final POSIX
standard, with the following additional requirements:

- getaddrinfo() (along with the getnameinfo() function described in
  the next section) must be thread safe.

- The AI_NUMERICHOST is new with this document.

- All fields in socket address structures returned by getaddrinfo()
  that are not filled in through an explicit argument (e.g.,
  sin6_flowinfo and sin_zero) must be set to 0. (This makes it easier
  to compare socket address structures.)

- getaddrinfo() must fill in the length field of a socket address structure
  (e.g., sin6_len) on systems that support this field.

We are providing this independent description of the function because

POSIX
standards are not freely available (as are IETF documents).

```
#include <sys/socket.h>
#include <netdb.h>

int getaddrinfo(const char *nodename, const char *servname,
                const struct addrinfo *hints,
                struct addrinfo **res);
```

The addrinfo structure is defined as a result of including the <netdb.h>
header.

```
struct addrinfo {
```



```
  int     ai_flags;     /* AI_PASSIVE, AI_CANONNAME, AI_NUMERICHOST */
  int     ai_family;    /* PF_xxx */
  int     ai_socktype;  /* SOCK_xxx */
  int     ai_protocol;  /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
  size_t  ai_addrlen;   /* length of ai_addr */
  char   *ai_canonname; /* canonical name for nodename */
  struct sockaddr  *ai_addr; /* binary address */
  struct addrinfo  *ai_next; /* next structure in linked list */
};
```

The return
value from the function is 0 upon success or a nonzero error
code. The following names are the nonzero error codes from
getaddrinfo(), and are defined in <netdb.h>:

```
EAI_ADDRFAMILY  address family for nodename not supported
EAI_AGAIN       temporary failure in name resolution
EAI_BADFLAGS    invalid value for ai_flags
EAI_FAIL        non-recoverable failure in name resolution
EAI_FAMILY      ai_family not supported
EAI_MEMORY      memory allocation failure
EAI_NODATA      no address associated with nodename
EAI_NONAME      nodename nor servname provided, or not known
EAI_SERVICE     servname not supported for ai_socktype
EAI_SOCKTYPE    ai_socktype not supported
EAI_SYSTEM      system error returned in errno
```

The nodename and servname arguments are pointers to null-terminated strings or NULL. One or both of these two arguments must be a non-NULL pointer. In the normal client scenario, both the nodename and servname are specified. In the normal server scenario, only the servname is specified. A non-NULL nodename string can be either a node name or a numeric host address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). A non-NULL servname string can be either a service name or a decimal port number.

The caller can optionally pass an addrinfo structure, pointed to by the third argument, to provide hints concerning the type of socket that the caller supports. In this hints structure all members other than ai_flags, ai_family, ai_socktype, and ai_protocol must be zero or a NULL pointer. A value of PF_UNSPEC for ai_family means the caller will accept any protocol family. A value of 0 for ai_socktype means the caller will accept any socket type. A value of 0 for ai_protocol means the caller will accept any protocol. For example, if the caller handles only TCP and not UDP, then the ai_socktype member of the hints structure should be set to SOCK_STREAM when getaddrinfo() is called. If the caller handles only IPv4 and not IPv6, then the ai_family member of the hints structure should be set to PF_INET when getaddrinfo() is called. If the third argument to getaddrinfo() is a NULL pointer, this is the same as if the caller had filled in an addrinfo structure initialized to zero with ai_family set to PF_UNSPEC.

Upon successful return a pointer to a linked list of one or more addrinfo structures is returned through the final argument. The caller can process each addrinfo structure in this list by following the ai_next pointer, until a NULL pointer is encountered. In each returned addrinfo structure the three members ai_family, ai_socktype, and ai_protocol are the corresponding arguments for a call to the socket() function. In each addrinfo structure the ai_addr member points to a

filled-in socket address structure whose length is specified by the ai_addrlen member.

If the AI_PASSIVE bit is set in the ai_flags member of the hints

structure, then the caller plans to use the returned socket address structure in a call to bind(). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to INADDR_ANY for an IPv4 address or IN6ADDR_ANY_INIT for an IPv6 address.

If the AI_PASSIVE bit is not set in the ai_flags member of the hints structure, then the returned socket address structure will be ready for a call to connect() (for a connection-oriented protocol) or either connect(), sendto(), or sendmsg() (for a connectionless protocol). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to the loopback address.

If the AI_CANONNAME bit is set in the ai_flags member of the hints structure, then upon successful return the ai_canonname member of the first addrinfo structure in the linked
list will point to a null-
terminated string containing the canonical name of the specified nodename.

If the AI_NUMERICHOST bit is set in the ai_flags member of the hints structure, then a non-NULL nodename string must be a numeric host address string. Otherwise an error of EAI_NONAME is returned. This flag prevents any type of name resolution service (e.g., the DNS) from being called.

All of the information returned by getaddrinfo() is dynamically allocated: the addrinfo structures, and the socket address structures and canonical node name strings pointed to by the addrinfo structures. To return this information to the system the function freeaddrinfo() is called:

```
#include <sys/socket.h>
#include <netdb.h>

void freeaddrinfo(struct addrinfo *ai);
```

The addrinfo structure pointed to by the ai argument is freed, along with any dynamic storage pointed to by the structure. This operation is repeated until a NULL ai_next pointer is encountered.

To aid applications in printing
error messages based on the EAI_xxx
codes returned by getaddrinfo(), the following function is defined.

```
#include <sys/socket.h>
#include <netdb.h>
```

```
char *gai_strerror(int ecode);
```

The argument is one of the EAI_xxx values defined earlier and the return value points to a string describing the error. If the argument is not one of the EAI_xxx values, the function still returns a pointer to a string whose contents indicate an unknown error.

6.5 Socket Address Structure to Nodename and Service Name

The POSIX 1003.1g specification includes no function to perform the reverse conversion from getaddrinfo(): to look up a nodename and service name, given the binary address and port. Therefore, we define the following function:

```
#include <sys/socket.h>
#include <netdb.h>

int getnameinfo(const struct sockaddr *sa, socklen_t
salen,
                char *host, size_t hostlen,
                char *serv, size_t servlen,
                int flags);
```

This function looks up an IP address and port number provided by the caller in the DNS and system-specific database, and returns text strings for both in buffers provided by the caller. The function indicates successful completion by a zero return value; a non-zero return value indicates failure.

The first argument, sa, points to either a sockaddr_in structure (for IPv4) or a sockaddr_in6 structure (for IPv6) that holds the IP address and port number. The salen argument gives the length of the sockaddr_in or sockaddr_in6 structure.

The function returns the nodename associated with the IP address in the buffer pointed to by the host argument. The caller provides the size of this buffer via the hostlen argument. The service name associated with the port number is returned in the buffer pointed to by serv, and the servlen argument gives the length

of this buffer. The caller specifies
not to return either string by providing a zero value for the hostlen or
servlen arguments. Otherwise, the caller must provide buffers large
enough to hold the nodename and the service name, including the
terminating null characters.

Unfortunately most systems do not provide constants that specify the
maximum size of either a fully-qualified domain name or a service name.
Therefore to aid the application in allocating buffers for these two
returned strings the following constants are defined in <netdb.h>:

```
#define NI_MAXHOST  1025
#define NI_MAXSERV    32
```

The first value is actually defined as the constant MAXDNAME in recent
versions of BIND's <arpa/nameser.h> header (older versions of BIND
define this constant to be 256) and the second is a guess based on the
services listed in the current Assigned Numbers RFC.

The final argument is a flag that changes the default actions of this
function. By default the fully-qualified domain name (FQDN)
for the
host is looked up in the DNS and returned. If the flag bit NI_NOFQDN is
set, only the nodename portion of the FQDN is returned for local hosts.

If the flag bit NI_NUMERICHOST is set, or if the host's name cannot be
located in the DNS, the numeric form of the host's address is returned
instead of its name (e.g., by calling inet_ntop() instead of
getipnodebyaddr()). If the flag bit NI_NAMEREQD is set, an error is

returned if the host's name cannot be located in the DNS.

If the flag bit NI_NUMERICSERV is set, the numeric form of the service
address is returned (e.g., its port number) instead of its name. The
two NI_NUMERICxxx flags are required to support the "-n" flag that many
commands provide.

A fifth flag bit, NI_DGRAM, specifies that the service is a datagram
service, and causes getservbyport() to be called with a second
argument
of "udp" instead of its default of "tcp". This is required for the few

ports (e.g. 512-514) that have different services for UDP and TCP.

These NI_xxx flags are defined in <netdb.h> along with the AI_xxx flags already defined for getaddrinfo().

6.6 Address Conversion Functions

The two functions inet_addr() and inet_ntoa() convert an IPv4 address between binary and text form. IPv6 applications need similar functions. The following two functions convert both IPv6 and IPv4 addresses:

```
#include <sys/socket.h>
#include <arpa/inet.h>

int inet_pton(int af, const char *src, void *dst);

const char *inet_ntop(int af, const void *src,
                      char *dst, size_t size);
```

The inet_pton() function converts an address in its standard text presentation form into its numeric binary form. The af argument specifies the family of the address. Currently the AF_INET and AF_INET6 address families are supported. The src argument points to the string being passed
in. The dst argument points to a buffer into which the function stores the numeric address. The address is returned in network byte order. Inet_pton() returns 1 if the conversion succeeds, 0 if the input is not a valid IPv4 dotted-decimal string or a valid IPv6 address string, or -1 with errno set to EAFNOSUPPORT if the af argument is unknown. The calling application must ensure that the buffer referred to by dst is large enough to hold the numeric address (e.g., 4 bytes for AF_INET or 16 bytes for AF_INET6).

If the af argument is AF_INET, the function accepts a string in the standard IPv4 dotted-decimal form:

```
ddd.ddd.ddd.ddd
```

where ddd is a one to three digit decimal number between 0 and 255. Note that many implementations of the existing inet_addr() and inet_aton() functions accept nonstandard input: octal numbers, hexadecimal numbers, and fewer than four numbers. inet_pton() does not accept these formats.

If the af argument is AF_INET6, then the function accepts a string

in
one of the standard IPv6 text forms defined in Section 2.2 of the
addressing architecture specification [2].

The inet_ntop() function converts a numeric address into a text string
suitable for presentation. The af argument specifies the family of the
address. This can be AF_INET or AF_INET6. The src argument points to a
buffer holding an IPv4 address if the af argument is AF_INET, or an IPv6
address if the af argument is AF_INET6, the address must be in network
byte order. The dst argument points to a buffer where the function will
store the resulting text string. The size argument specifies the size
of this buffer. The application must specify a non-NULL dst argument.
For IPv6 addresses, the buffer must be at least 46-octets. For IPv4
addresses, the buffer must be at least 16-octets. In order to allow
applications to easily
declare buffers of the proper size to store IPv4
and IPv6 addresses in string form, the following two constants are
defined in <netinet/in.h>:

```
#define INET_ADDRSTRLEN    16
#define INET6_ADDRSTRLEN   46
```

The inet_ntop() function returns a pointer to the buffer containing the
text string if the conversion succeeds, and NULL otherwise. Upon
failure, errno is set to EAFNOSUPPORT if the af argument is invalid or
ENOSPC if the size of the result buffer is inadequate.

6.7 Address Testing Macros

The following macros can be used to test for special IPv6 addresses.

```
#include <netinet/in.h>

int  IN6_IS_ADDR_UNSPECIFIED (const struct in6_addr *);
int  IN6_IS_ADDR_LOOPBACK    (const struct in6_addr *);
int  IN6_IS_ADDR_MULTICAST   (const struct in6_addr *);
int  IN6_IS_ADDR_LINKLOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_SITELOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_V4MAPPED    (const struct in6_addr *);
```

```
int  IN6_IS_ADDR_V4COMPAT    (const
struct in6_addr *);

int  IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_ORGLOCAL (const struct in6_addr *);
int  IN6_IS_ADDR_MC_GLOBAL   (const struct in6_addr *);
```

The first seven macros return true if the address is of the specified type, or false otherwise. The last five test the scope of a multicast address and return true if the address is a multicast address of the specified scope or false if the address is either not a multicast address or not of the specified scope. Note that IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL return true only for the two local-use IPv6 unicast addresses. These two macros do not return true for IPv6 multicast addresses of either link-local scope or site-local scope.

7. Summary of New Definitions

The following list summarizes the constants, structure, and extern definitions discussed in this memo, sorted by header.

```
<net/if.h>     IF_NAMESIZE
<net/if.h>     struct if_nameindex{};

<netdb.h>      AI_ADDRCONFIG
<netdb.h>      AI_DEFAULT
<netdb.h>      AI_ALL
<netdb.h>      AI_CANONNAME
<netdb.h>      AI_NUMERICHOST
<netdb.h>      AI_PASSIVE
<netdb.h>      AI_V4MAPPED
<netdb.h>      EAI_ADDRFAMILY
```

```
<netdb.h>      EAI_AGAIN
<netdb.h>      EAI_BADFLAGS
<netdb.h>      EAI_FAIL
<netdb.h>      EAI_FAMILY
<netdb.h>      EAI_MEMORY
<netdb.h>      EAI_NODATA
<netdb.h>      EAI_NONAME
<netdb.h>      EAI_SERVICE
<netdb.h>      EAI_SOCKTYPE
<netdb.h>      EAI_SYSTEM
<netdb.h>      NI_DGRAM
<netdb.h>      NI_MAXHOST
<netdb.h>      NI_MAXSERV
<netdb.h>      NI_NAMEREQD
<netdb.h>      NI_NOFQDN
<netdb.h>      NI_NUMERICHOST
<netdb.h>
    NI_NUMERICSERV
<netdb.h>      struct addrinfo{};

<netinet/in.h>  IN6ADDR_ANY_INIT
<netinet/in.h>  IN6ADDR_LOOPBACK_INIT
<netinet/in.h>  INET6_ADDRSTRLEN
<netinet/in.h>  INET_ADDRSTRLEN
<netinet/in.h>  IPPROTO_IPV6
<netinet/in.h>  IPV6_JOIN_GROUP
<netinet/in.h>  IPV6_LEAVE_GROUP
<netinet/in.h>  IPV6_MULTICAST_HOPS
<netinet/in.h>  IPV6_MULTICAST_IF
<netinet/in.h>  IPV6_MULTICAST_LOOP
<netinet/in.h>  IPV6_UNICAST_HOPS
<netinet/in.h>  SIN6_LEN
<netinet/in.h>  extern const struct in6_addr in6addr_any;
<netinet/in.h>  extern const struct in6_addr in6addr_loopback;
<netinet/in.h>  struct in6_addr{};
<netinet/in.h>  struct ipv6_mreq{};
<netinet/in.h>  struct sockaddr_in6{};

<sys/socket.h>  AF_INET6
<sys/socket.h>  PF_INET6
<sys/socket.h>  struct sockaddr_storage;
```

The following list summarizes the function and macro prototypes

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discussed in this memo, sorted by header.

```
<arpa/inet.h>   int inet_pton(int, const char *, void *);
<arpa/inet.h>   const char *inet_ntop(int, const void *,
                        char *, size_t);

<net/if.h>      char *if_indextoname(unsigned int, char *);
<net/if.h>      unsigned int if_nametoindex(const char *);
<net/if.h>      void if_freenameindex(struct if_nameindex *);
<net/if.h>      struct if_nameindex *if_nameindex(void);

<netdb.h>       int getaddrinfo(const char *, const char *,
                    const struct addrinfo *,
                    struct addrinfo **);
<netdb.h>       int getnameinfo(const struct sockaddr *, socklen_t,
                    char *, size_t, char *, size_t, int);
<netdb.h>       void freeaddrinfo(struct addrinfo *);
<netdb.h>       char *gai_strerror(int);
<netdb.h>       struct hostent *getipnodebyname(const
char *, int, int,
                        int *);
<netdb.h>       struct hostent *getipnodebyaddr(const void *, size_t, int,
                        int *);
<netdb.h>       void freehostent(struct hostent *);

<netinet/in.h>  int IN6_IS_ADDR_LINKLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_LOOPBACK(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_GLOBAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_ORGLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MULTICAST(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_SITELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_UNSPECIFIED(const struct in6_addr *);
<netinet/in.h>
int IN6_IS_ADDR_V4COMPAT(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_V4MAPPED(const struct in6_addr *);
```

8. Security Considerations

IPv6 provides a number of new security mechanisms, many of which need to be accessible to applications. Companion memos detailing the extensions to the socket interfaces to support IPv6 security are being written.

9. Year 2000 Considerations

There are no issues for this draft concerning the Year 2000 issue regarding the use of dates.

Changes From RFC 2133

Changes made in the March 1998 Edition (-01 draft):

Changed all "hostname" to "nodename" for consistency with other IPv6 documents.

Section 3.3: changed comment for sin6_flowinfo to be "traffic class & flow info" and updated corresponding text description to current definition of these two fields.

Section 3.10 ("Portability Additions") is new.

Section 6: a new paragraph was added reiterating that the existing gethostbyname() and gethostbyaddr() are not changed.

Section 6.1: change gethostbyname3() to getnodebyname(). Add AI_DEFAULT to handle majority of applications. Renamed AI_V6ADDRCONFIG to AI_ADDRCONFIG and define it for A records and IPv4 addresses too. Defined exactly what getnodebyname() must return if the name argument is a numeric address string.

Section 6.2: change gethostbyaddr() to getnodebyaddr(). Reword items

2 and 3 in the description of how to handle IPv4-mapped and IPv4-compatible addresses to "lookup a name" for a given address, instead of specifying what type of DNS query to issue.

Section 6.3: added two more requirements to getaddrinfo().

Section 7: added the following constants to the list for <netdb.h>: AI_ADDRCONFIG, AI_ALL, and AI_V4MAPPED. Add union sockaddr_union and SA_LEN to the lists for <sys/socket.h>.

Updated references.

Changes made in the November 1997 Edition (-00 draft):

The data types have been changed to conform with Draft 6.6 of the Posix 1003.1g standard.

Section 3.2: data type of s6_addr changed to "uint8_t".

Section 3.3: data type of sin6_family changed to "sa_family_t". data type of sin6_port changed to "in_port_t", data type of sin6_flowinfo changed to "uint32_t".

Section 3.4: same as Section 3.3, plus data type of sin6_len changed to "uint8_t".

Section 6.2: first argument of gethostbyaddr() changed from "const char *" to "const void *" and second argument changed from "int" to "size_t".

Section 6.4: second argument of getnameinfo() changed from "size_t" to "socklen_t".

The wording was changed when new structures were defined, to be more explicit as to which header must be included to define the structure:

Section 3.2 (in6_addr{}), Section 3.3 (sockaddr_in6{}), Section 3.4 (sockaddr_in6{}), Section 4.3 (if_nameindex{}), Section 5.3 (ipv6_mreq{}), and Section 6.3 (addrinfo{}).

Section 4: NET_RT_LIST changed to NET_RT_IFLIST.

Section 5.1: The IPV6_ADDRFORM socket option was removed.

Section 5.3: Added a note that an option value other than 0 or 1 for IPV6_MULTICAST_LOOP returns an error. Added a note that IPV6_MULTICAST_IF, IPV6_MULTICAST_HOPS, and IPV6_MULTICAST_LOOP can also be used with getsockopt(), but IPV6_ADD_MEMBERSHIP and IPV6_DROP_MEMBERSHIP cannot be used with getsockopt().

Section 6.1: Removed the description of gethostbyname2() and its associated RES_USE_INET6 option, replacing it with gethostbyname3().

Section 6.2: Added requirement that gethostbyaddr() be thread safe. Reworded step 4 to avoid using the RES_USE_INET6 option.

Section 6.3: Added the requirement that getaddrinfo()
and
getnameinfo() be thread safe. Added the AI_NUMERICHOST flag.

Section 6.6: Added clarification about IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL macros.

Changes made to the draft -01 specification Sept 98

Changed priority to traffic class in the spec.

Added the need for scope identification in section 2.1.

Added sin6_scope_id to struct sockaddr_in6 in sections 3.3 and 3.4.

Changed 3.10 to use generic storage structure to support holding IPv6 addresses and removed the SA_LEN macro.

Distinguished between invalid input parameters and system failures for Interface Identification in Section 4.1 and 4.2.

Added defaults for multicast operations in section 5.2 and changed the names from ADD to JOIN and DROP to LEAVE to be consistent with IPv6 multicast terminology.

Changed getnodebyname to getipnodebyname, getnodebyaddr to getipnodebyaddr, and added MT safe error code to function parameters in section 6.

Moved freehostent
to its own sub-section after getipnodebyaddr now
6.3 (so this bumps all remaining sections in section 6.

Clarified the use of AI_ALL and AI_V4MAPPED that these are dependent on the AF parameter and must be used as a conjunction in section 6.1.

Removed the restriction that literal addresses cannot be used with a flags argument in section 6.1.

Added Year 2000 Section to the draft

Deleted Reference to the following because the attached is deleted from the ID directory and has expired. But the logic from the aforementioned draft still applies, so that was kept in Section 6.2 bullets after 3rd paragraph.

[7] P. Vixie, "Reverse Name Lookups of Encapsulated IPv4 Addresses in IPv6", Internet-Draft, <draft-vixie-ipng-ipv4ptr-00.txt>, May 1996.

Deleted the following reference as it is no longer referenced.
And the draft has expired.

[3] D. McDonald, "A Simple IP Security API Extension to BSD Sockets", Internet-Draft, <draft-mcdonald-simple-ipsec-api-01.txt>, March 1997.

Deleted the following reference as it is no longer referenced.

[4] C. Metz, "Network Security API for Sockets", Internet-Draft, <draft-metz-net-security-api-01.txt>, January 1998.

Update current references to current status.

Added alignment notes for in6_addr and sin6_addr.

Clarified further that AI_V4MAPPED must be used with a dotted IPv4 literal address for getipnodebyname(), when address family is AF_INET6.

Added text to clarify "::" and "::1" when used by getipnodebyaddr().

Acknowledgments

Thanks to the many people who made suggestions and provided feedback to this document, including: Werner Almesberger, Ran Atkinson, Fred Baker, Dave Borman, Andrew Cherenson, Alex Conta, Alan Cox, Steve Deering, Richard Draves, Francis Dupont, Robert Elz, Marc Hasson, Tom Herbert, Bob Hinden, Wan-Yen Hsu, Christian Huitema, Koji Imada, Markus Jork, Ron Lee, Alan Lloyd, Charles Lynn, Dan McDonald, Dave Mitton, Thomas Narten, Josh Osborne, Craig Partridge, Jean-Luc Richier, Erik Scoredos, Keith Sklower, Matt Thomas, Harvey Thompson, Dean D. Throop, Karen Tracey, Glenn Trewitt, Paul Vixie, David Waitzman, Carl Williams, and Kazu Yamamoto,

The getaddrinfo() and getnameinfo() functions are taken from an earlier Internet Draft by Keith Sklower. As noted in that draft, William Durst, Steven Wise, Michael Karels, and Eric Allman provided many useful discussions on the subject of protocol-independent name-to-address translation, and reviewed early versions of Keith Sklower's original proposal. Eric Allman implemented the first prototype of getaddrinfo(). The observation that specifying the pair of name and service would suffice for connecting to a service independent of protocol details was made by Marshall Rose in a proposal to X/Open for a "Uniform Network Interface".

Craig Metz, Jack McCann, Erik Nordmark, Tim Hartrick, and Mukesh Kacker made many contributions to this document. Ramesh Govindan made a number

of contributions and co-authored an earlier version of this memo.

References

[1] S. Deering, R. Hinden, "Internet Protocol, Version 6 (IPv6) Specification", RFC 2460 Draft Standard.

[2] R. Hinden, S. Deering, "IP Version 6 Addressing Architecture", RFC 2373, July 1998 Draft Standard.

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[3] IEEE, "Protocol Independent Interfaces",
IEEE Std 1003.1g, DRAFT 6.6,
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[4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6",
RFC 2292, February 1998.

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./bin/tests/system/allow-query/ns2/named28.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named29.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named30.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named31.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named32.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named33.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named34.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named40.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named53.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named54.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named55.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named56.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named57.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns3/named.args X 2018,2019
./bin/tests/system/allow-query/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/setup.sh SH 2018,2019
./bin/tests/system/allow-query/tests.sh SH 2018,2019
./bin/tests/system/ans.pl PERL 2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/autosign/clean.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/autosign/ns1/keygen.sh SH 2009,2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/autosign/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns1/root.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30676.key X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30676.private X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30804.key X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30804.private X 2010,2018,2019
./bin/tests/system/autosign/ns2/bar.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns2/child.nsec3.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/child.optout.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/dst.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/example.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/autosign/ns2/insecure.secure.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/autosign/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns2/private.secure.example.db.in ZONE 2009,2016,2018,2019
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./bin/tests/system/autosign/ns3/delay.example.db ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/delzsk.example.db.in ZONE 2018,2019
./bin/tests/system/autosign/ns3/inacksk2.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/autosign/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns3/nozsk.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019

./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure-to-insecure.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl1.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl3.example.db.in ZONE 2011,2016,2018,2019
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./bin/tests/system/autosign/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/prereq.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/autosign/setup.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/autosign/tests.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
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./bin/tests/system/cacheclean/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
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./bin/tests/system/cacheclean/setup.sh SH 2018,2019
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./bin/tests/system/case/dynamic.good X 2015,2018,2019
./bin/tests/system/case/ns1/dynamic.db.in ZONE 2015,2016,2018,2019
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./bin/tests/system/case/tests.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/catz/clean.sh SH 2016,2018,2019
./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019
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./bin/tests/system/chain/ns7/root.hint ZONE 2017,2018,2019
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./bin/tests/system/chain/setup.sh SH 2017,2018,2019
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./bin/tests/system/checkconf/bad-rate-limit-window.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/bad-rpz-zone.conf CONF-C 2016,2018,2019
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./bin/tests/system/checkconf/bad-sharedzone1.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/checkconf/bad-sharedzone2.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/checkconf/bad-sharedzone3.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-tsig.conf CONF-C 2012,2013,2016,2018,2019
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./bin/tests/system/checkconf/bad-update-policy10.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy11.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy12.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy13.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy14.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy15.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy2.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy3.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy4.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy5.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy6.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy7.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-update-policy8.conf CONF-C 2018,2019
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./bin/tests/system/checkconf/bad-view-also-notify.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/check-dlv-ksk-key.conf CONF-C 2018,2019
./bin/tests/system/checkconf/check-dup-records-fail.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/check-dup-records.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkconf/check-mx-cname-fail.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/check-mx-cname.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkconf/check-mx-fail.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/check-mx.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkconf/check-names-fail.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/check-names.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkconf/check-root-ksk-2010.conf CONF-C 2018,2019

./bin/tests/system/checkconf/check-root-ksk-2017.conf CONF-C 2018,2019
./bin/tests/system/checkconf/check-root-ksk-both.conf CONF-C 2018,2019
./bin/tests/system/checkconf/check-srv-cname-fail.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/check-srv-cname.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkconf/clean.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/checkconf/dlz-bad.conf CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/checkconf/dnssec.1 CONF-C 2011,2016,2018,2019
./bin/tests/system/checkconf/dnssec.2 CONF-C 2011,2016,2018,2019
./bin/tests/system/checkconf/dnssec.3 CONF-C 2011,2016,2017,2018,2019
./bin/tests/system/checkconf/good-acl.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/good-class.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/checkconf/good-dlv-dlv.example.com.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/good-lmdb-mapsize-largest.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/good-lmdb-mapsize-smallest.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/good-nested.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/checkconf/good-options-also-notify.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/good-response-dot.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/good-update-policy1.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy10.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy11.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy12.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy2.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy3.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy4.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy5.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy6.conf CONF-C 2018,2019
./bin/tests/system/checkconf/good-update-policy7.conf CONF-C 2018,2019
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./bin/tests/system/checkconf/good.conf CONF-C 2005,2007,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
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./bin/tests/system/checkconf/inline-bad.conf CONF-C 2013,2016,2018,2019
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./bin/tests/system/checkconf/maxttl-bad.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/maxttl-bad.db ZONE 2014,2016,2018,2019
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./bin/tests/system/checkconf/range.conf CONF-C 2013,2016,2018,2019
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./bin/tests/system/checkconf/tests.sh SH 2005,2007,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/checkconf/view-class-any1.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/view-class-any2.conf CONF-C 2016,2018,2019

./bin/tests/system/checkconf/view-class-in1.conf CONF-C 2016,2018,2019
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./bin/tests/system/checkconf/warn-dlv-auto.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/warn-dlv-dlv.isc.org.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/warn-keydir.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/checkds/clean.sh SH 2012,2013,2014,2016,2018,2019
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./bin/tests/system/checkds/dig.pl PERL 2014,2016,2018,2019
./bin/tests/system/checkds/dig.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/checkds/missing.example.dlv.example.dlv.db X 2012,2018,2019
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./bin/tests/system/checkds/none.example.dlv.example.dlv.db X 2012,2018,2019
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./bin/tests/system/checkds/setup.sh SH 2012,2013,2014,2016,2018,2019
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./bin/tests/system/checknames/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019
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./bin/tests/system/checknames/ns1/ignore.example.db.in ZONE 2004,2007,2016,2018,2019
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./bin/tests/system/checknames/ns1/named.conf.in CONF-C 2018,2019
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./bin/tests/system/checknames/ns2/named.conf.in CONF-C 2018,2019
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./bin/tests/system/checknames/ns4/master-ignore.update.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/checknames/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/checknames/ns4/root.hints ZONE 2014,2016,2018,2019
./bin/tests/system/checknames/setup.sh SH 2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/checknames/tests.sh SH 2004,2007,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/checkzone/clean.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/checkzone/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/checkzone/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/checkzone/zones/.gitattributes X 2015,2018,2019
./bin/tests/system/checkzone/zones/bad-badclass.raw X 2015,2018,2019
./bin/tests/system/checkzone/zones/bad-caa-rr.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/bad-dns-sd-reverse.db ZONE 2015,2016,2018,2019

./bin/tests/system/checkzone/zones/bad-generate-tkey.db ZONE 2018,2019
./bin/tests/system/checkzone/zones/bad-nsap-empty.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/bad-nsap-odd-nibble.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/bad-nsec3-padded.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/bad-nsec3owner-padded.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/bad-tkey.db ZONE 2018,2019
./bin/tests/system/checkzone/zones/bad-tsig.db ZONE 2018,2019
./bin/tests/system/checkzone/zones/bad-unspec.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/bad1.db ZONE 2013,2016,2018,2019
./bin/tests/system/checkzone/zones/bad2.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/bad3.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/bad4.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/badttl.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/crashzone.db ZONE 2016,2018,2019
./bin/tests/system/checkzone/zones/delegating-ns-address-below-dname.db ZONE 2017,2018,2019
./bin/tests/system/checkzone/zones/good-dns-sd-reverse.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/good-gc-msdcs.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/good-nsap.db ZONE 2015,2016,2018,2019
./bin/tests/system/checkzone/zones/good-nsec3-nopadhash.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/good-occulted-ns-by-dname.db ZONE 2017,2018,2019
./bin/tests/system/checkzone/zones/good-occulted-ns-by-ns.db ZONE 2017,2018,2019
./bin/tests/system/checkzone/zones/good1.db ZONE 2011,2016,2018,2019
./bin/tests/system/checkzone/zones/inherit.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/nowarn.inherited.owner.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/ns-address-below-dname.db ZONE 2017,2018,2019
./bin/tests/system/checkzone/zones/spf.db ZONE 2013,2016,2018,2019
./bin/tests/system/checkzone/zones/test1.db ZONE 2013,2016,2018,2019
./bin/tests/system/checkzone/zones/test2.db ZONE 2013,2016,2018,2019
./bin/tests/system/checkzone/zones/warn.inherit.origin.db ZONE 2014,2016,2018,2019
./bin/tests/system/checkzone/zones/warn.inherited.owner.db ZONE 2014,2016,2018,2019
./bin/tests/system/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/cleanall.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/cleanpkcs11.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/common/controls.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/common/controls.conf.in CONF-C 2018,2019
./bin/tests/system/common/rndc.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/common/rndc.key CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/common/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/conf.sh.in SH
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/conf.sh.win32 SH 2016,2017,2018,2019
./bin/tests/system/cookie/bad-cookie-badhex.conf CONF-C 2014,2015,2016,2018,2019
./bin/tests/system/cookie/bad-cookie-badsha1.conf CONF-C 2017,2018,2019
./bin/tests/system/cookie/bad-cookie-badsha256.conf CONF-C 2017,2018,2019
./bin/tests/system/cookie/bad-cookie-toolong.conf CONF-C 2014,2015,2016,2018,2019
./bin/tests/system/cookie/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/cookie/good-cookie-sha1.conf CONF-C 2017,2018,2019
./bin/tests/system/cookie/good-cookie-sha256.conf CONF-C 2017,2018,2019

./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/cookie/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns1/root.hint ZONE 2014,2015,2016,2018,2019
./bin/tests/system/cookie/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/cookie/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns3/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/cookie/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns4/root.hint ZONE 2018,2019
./bin/tests/system/cookie/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns5/root.hint ZONE 2018,2019
./bin/tests/system/cookie/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns6/root.hint ZONE 2018,2019
./bin/tests/system/cookie/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/cookie/ns7/root.db ZONE 2018,2019
./bin/tests/system/cookie/setup.sh SH 2018,2019
./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/coverage/01-ksk-inactive/README X 2013,2018,2019
./bin/tests/system/coverage/01-ksk-inactive/expect X 2013,2018,2019
./bin/tests/system/coverage/02-zsk-inactive/README X 2013,2018,2019
./bin/tests/system/coverage/02-zsk-inactive/expect X 2013,2018,2019
./bin/tests/system/coverage/03-ksk-unpublished/README X 2013,2018,2019
./bin/tests/system/coverage/03-ksk-unpublished/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/04-zsk-unpublished/README X 2013,2018,2019
./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/05-ksk-unpub-active/README X 2013,2018,2019
./bin/tests/system/coverage/05-ksk-unpub-active/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/06-zsk-unpub-active/README X 2013,2018,2019
./bin/tests/system/coverage/06-zsk-unpub-active/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/07-ksk-ttl/README X 2013,2018,2019
./bin/tests/system/coverage/07-ksk-ttl/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/08-zsk-ttl/README X 2013,2018,2019
./bin/tests/system/coverage/08-zsk-ttl/expect X 2013,2016,2018,2019
./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019
./bin/tests/system/coverage/09-check-zsk/expect X 2014,2018,2019
./bin/tests/system/coverage/10-check-ksk/README X 2014,2018,2019
./bin/tests/system/coverage/10-check-ksk/expect X 2014,2018,2019
./bin/tests/system/coverage/11-cutoff/README X 2014,2018,2019
./bin/tests/system/coverage/11-cutoff/expect X 2014,2018,2019
./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/coverage/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/coverage/tests.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019
./bin/tests/system/database/ns1/named2.conf.in CONF-C 2011,2013,2018,2019
./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019

./bin/tests/system/delzone/clean.sh SH 2016,2018,2019
./bin/tests/system/delzone/ns1/inlineslave.db ZONE 2016,2018,2019
./bin/tests/system/delzone/ns1/named.conf CONF-C 2016,2018,2019
./bin/tests/system/delzone/ns2/added.db ZONE 2016,2018,2019
./bin/tests/system/delzone/ns2/named.args X 2016,2018,2019
./bin/tests/system/delzone/ns2/named.conf CONF-C 2016,2018,2019
./bin/tests/system/delzone/ns2/normal.db ZONE 2016,2018,2019
./bin/tests/system/delzone/setup.sh SH 2016,2018,2019
./bin/tests/system/delzone/tests.sh SH 2016,2018,2019
./bin/tests/system/dialup/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns2/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns3/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/ns3/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dialup/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019
./bin/tests/system/digdelv/ans4/startme X 2017,2018,2019
./bin/tests/system/digdelv/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/digdelv/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/digdelv/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/digdelv/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/digdelv/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/digdelv/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/digdelv/prereq.sh SH 2018,2019
./bin/tests/system/digdelv/setup.sh SH 2018,2019
./bin/tests/system/digdelv/tests.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019
./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/ns2/druz.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dlv/ns2/hints ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/ns2/utld.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019
./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019

./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019
./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019
./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019
./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2015,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/NS=10=example.com.= TXT.BRIEF 2015,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/SOA=10=ns.example.com.=root.example.com.=None=None=None=None=None= TXT.BRIEF 2015,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/NS=10=example.com.= TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/SOA=10=ns.example.com.=root.example.com.=2010062900=0=0=0=10= TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dlz/ns1/dns-root/com/example/xfr.d/10.53.0.1 TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dlz/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dlz/prereq.sh.in SH 2011,2012,2016,2018,2019
./bin/tests/system/dlz/setup.sh SH 2018,2019
./bin/tests/system/dlz/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019
./bin/tests/system/dlzexternal/Makefile.in MAKE 2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/dlzexternal/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/dlzexternal/driver.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dlzexternal/driver.h C 2011,2016,2018,2019
./bin/tests/system/dlzexternal/ns1/dlzs.conf.in CONF-C 2018,2019
./bin/tests/system/dlzexternal/ns1/named.conf.in CONF-C 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dlzexternal/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/dlzexternal/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlzexternal/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dlzexternal/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dns64/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/dns64/conf/bad1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad7.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/dns64/conf/bad8.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/dns64/conf/bad9.conf CONF-C 2012,2016,2018,2019

./bin/tests/system/dns64/conf/good1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/ns1/example.db ZONE 2010,2011,2013,2016,2018,2019
./bin/tests/system/dns64/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dns64/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/system/dns64/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dns64/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dns64/ns2/rpz.db ZONE 2013,2016,2018,2019
./bin/tests/system/dns64/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/dns64/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dns64/tests.sh SH 2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/README TXT.BRIEF 2000,2001,2002,2004,2011,2016,2018,2019
./bin/tests/system/dnssec/clean.sh SH
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dnssec/dnssec_update_test.pl PERL 2002,2004,2007,2010,2012,2016,2018,2019
./bin/tests/system/dnssec/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns1/root.db.in ZONE 2000,2001,2004,2007,2010,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns1/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/algroll.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns2/badparam.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns2/cdnskey-auto.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cdnskey-update.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cdnskey.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds-auto.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds-update.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/child.nsec3.example.db ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns2/child.optout.example.db ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns2/dlv.db.in ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/dst.example.db.in ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/example.db.in ZONE
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/in-addr.arpa.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/insecure.secure.example.db ZONE 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/dnssec/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns2/private.secure.example.db.in ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/rfc2335.example.db X 2004,2018,2019
./bin/tests/system/dnssec/ns2/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/single-nsec3.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns3/auto-nsec.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/auto-nsec3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/bogus.example.db.in ZONE 2000,2001,2004,2007,2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/dnskey-nsec3-unknown.example.db.in ZONE 2014,2016,2018,2019

./bin/tests/system/dnssec/ns3/dnskey-unknown.example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/dynamic.example.db.in ZONE 2002,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/expired.example.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/expiring.example.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/future.example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/generic.example.db.in ZONE 2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/inline.example.db ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.below-cname.example.db ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.nsec3.example.db ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.optout.example.db ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/kskonly.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns3/lower.example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/managed-future.example.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/ns3/multiple.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns3/nosign.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3-unknown.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout-unknown.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/publish-inactive.example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/dnssec/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.below-cname.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.example.db.in ZONE
2000,2001,2004,2007,2008,2010,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval.example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval1.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval2.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/sign.sh SH
2000,2001,2002,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/ns3/split-dnssec.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/split-smart.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/ttlpatch.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/update-nsec3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/upper.example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns4/named1.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named2.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named3.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named4.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named5.conf.in CONF-C 2018,2019

./bin/tests/system/dnssec/ns5/named1.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns5/named2.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns5/sign.sh SH 2015,2016,2018,2019
./bin/tests/system/dnssec/ns5/trusted.conf.bad CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns6/named.args X 2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns6/optout-tld.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/dnssec/ns6/sign.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns7/named.nosoa TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dnssec/ns7/nosoa.secure.example.db ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns7/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/dnssec/ns7/split-rrsig.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ntadiff.pl PERL 2015,2016,2018,2019
./bin/tests/system/dnssec/prereq.sh SH 2000,2001,2002,2004,2006,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/setup.sh SH 2000,2001,2004,2007,2009,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/signer/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.key X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.private X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.key X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.private X 2018,2019
./bin/tests/system/dnssec/signer/general/bogus-ksk.key X 2018,2019
./bin/tests/system/dnssec/signer/general/bogus-zsk.key X 2018,2019
./bin/tests/system/dnssec/signer/general/test1.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test2.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test3.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test4.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test5.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test6.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test7.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test8.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/remove.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/signer/remove2.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/tests.sh SH
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-po2.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/clean.sh SH 2015,2016,2017,2018,2019

./bin/tests/system/dnstap/good-fstrm-set-buffer-hint.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-flush-timeout.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-input-queue-size.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-mpsc.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-spsc.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-size.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-reopen-interval.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/dnstap/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/dnstap/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/setup.sh SH 2018,2019
./bin/tests/system/dnstap/tests.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/dnstap/ydump.py PYTHON 2016,2017,2018,2019
./bin/tests/system/dscp/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/dscp/ns1/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns2/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns3/hint.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns3/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns4/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns4/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns5/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns6/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns7/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/setup.sh SH 2018,2019
./bin/tests/system/dscp/tests.sh SH 2013,2016,2018,2019
./bin/tests/system/dsdigest/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns2/bad.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns2/good.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns2/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns4/named.conf.in CONF-C 2018,2019

./bin/tests/system/dsdigest/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/tests.sh SH 2012,2016,2018,2019
./bin/tests/system/dupsigs/check_journal.pl PERL 2018,2019
./bin/tests/system/dupsigs/clean.sh SH 2018,2019
./bin/tests/system/dupsigs/ns1/named.args X 2018,2019
./bin/tests/system/dupsigs/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dupsigs/ns1/reset_keys.sh SH 2018,2019
./bin/tests/system/dupsigs/ns1/signing.test.db.in ZONE 2018,2019
./bin/tests/system/dupsigs/prereq.sh SH 2018,2019
./bin/tests/system/dupsigs/setup.sh SH 2018,2019
./bin/tests/system/dupsigs/tests.sh SH 2018,2019
./bin/tests/system/dyndb/Makefile.in MAKE 2015,2016,2018,2019
./bin/tests/system/dyndb/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/AUTHORS X 2015,2018,2019
./bin/tests/system/dyndb/driver/COPYING X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/Makefile.in MAKE 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/README X 2015,2018,2019
./bin/tests/system/dyndb/driver/db.c X 2015,2016,2017,2018,2019
./bin/tests/system/dyndb/driver/db.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/driver.c X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/instance.c X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/instance.h X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/lock.c X 2015,2018,2019
./bin/tests/system/dyndb/driver/lock.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/log.c X 2015,2018,2019
./bin/tests/system/dyndb/driver/log.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/syncptr.c X 2015,2017,2018,2019
./bin/tests/system/dyndb/driver/syncptr.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/util.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/zone.c X 2015,2018,2019
./bin/tests/system/dyndb/driver/zone.h X 2015,2018,2019
./bin/tests/system/dyndb/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dyndb/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/dyndb/setup.sh SH 2018,2019
./bin/tests/system/dyndb/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/ecdsa/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/ns1/named.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/ecdsa/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/ecdsa/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/ns2/named.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/ecdsa/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/tests.sh SH 2012,2013,2015,2016,2018,2019
./bin/tests/system/eddsa/clean.sh SH 2017,2018,2019
./bin/tests/system/eddsa/ns1/named.conf CONF-C 2017,2018,2019
./bin/tests/system/eddsa/ns1/root.db.in ZONE 2017,2018,2019
./bin/tests/system/eddsa/ns1/sign.sh SH 2017,2018,2019

./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.key X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.private X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.key X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.private X 2017,2018,2019
./bin/tests/system/eddsa/ns2/example.com.db ZONE 2017,2018,2019
./bin/tests/system/eddsa/ns2/named.conf CONF-C 2017,2018,2019
./bin/tests/system/eddsa/ns2/sign.sh SH 2017,2018,2019
./bin/tests/system/eddsa/prereq.sh SH 2017,2018,2019
./bin/tests/system/eddsa/setup.sh SH 2017,2018,2019
./bin/tests/system/eddsa/tests.sh SH 2017,2018,2019
./bin/tests/system/ednscompliance/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/ednscompliance/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/ednscompliance/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/ednscompliance/setup.sh SH 2018,2019
./bin/tests/system/ednscompliance/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/emptyzones/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/emptyzones/ns1/empty.db ZONE 2014,2016,2018,2019
./bin/tests/system/emptyzones/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/emptyzones/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/emptyzones/ns1/rfc1918.zones CONF-C 2014,2016,2018,2019
./bin/tests/system/emptyzones/ns1/root.hint ZONE 2014,2016,2018,2019
./bin/tests/system/emptyzones/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/emptyzones/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/feature-test.c C 2016,2017,2018,2019
./bin/tests/system/fetchlimit/ans4/ans.pl PERL 2015,2016,2018,2019
./bin/tests/system/fetchlimit/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/fetchlimit/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named.args X 2015,2018,2019
./bin/tests/system/fetchlimit/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named3.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/prereq.sh SH 2018,2019
./bin/tests/system/fetchlimit/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/fetchlimit/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/filter-aaaa/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good3.conf CONF-C 2010,2016,2018,2019

./bin/tests/system/filter-aaaa/conf/good4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good7.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good8.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns1/root.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/ns1/signed.db.in ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/signed.db.presigned X 2014,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/unsigned.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns2/hints ZONE 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns3/hints ZONE 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/root.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/ns4/signed.db.in ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns4/signed.db.presigned X 2014,2018,2019
./bin/tests/system/filter-aaaa/ns4/unsigned.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns5/hints ZONE 2018,2019
./bin/tests/system/filter-aaaa/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/prereq.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/tests.sh SH 2010,2012,2015,2016,2017,2018,2019
./bin/tests/system/formerr/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/formerr/formerr.pl PERL 2013,2014,2016,2018,2019
./bin/tests/system/formerr/nametoolong X 2013,2018,2019
./bin/tests/system/formerr/noquestions X 2013,2018,2019
./bin/tests/system/formerr/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/formerr/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/formerr/setup.sh SH 2018,2019
./bin/tests/system/formerr/tests.sh SH 2013,2015,2016,2018,2019
./bin/tests/system/formerr/twoquestions X 2013,2018,2019
./bin/tests/system/forward/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/forward/ns1/example.db X 2000,2001,2018,2019
./bin/tests/system/forward/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns2/example.db X 2000,2001,2018,2019
./bin/tests/system/forward/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns2/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns3/root.db ZONE 2000,2001,2004,2007,2016,2018,2019

./bin/tests/system/forward/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns4/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns5/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/forward/rfc1918-inherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/rfc1918-notinherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/setup.sh SH 2018,2019
./bin/tests/system/forward/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/forward/ula-inherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/ula-notinherited.conf CONF-C 2016,2018,2019
./bin/tests/system/genzone.sh SH 2001,2002,2003,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/geoip/clean.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoip/data/GeoIP.csv X 2013,2014,2018,2019
./bin/tests/system/geoip/data/GeoIP.dat X 2013,2014,2018,2019
./bin/tests/system/geoip/data/GeoIPASNum.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNum.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNumv6.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNumv6.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCity.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCity.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCityv6.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCityv6.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPDomain.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPDomain.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPISP.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPISP.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPNetSpeed.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPNetSpeed.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPOrg.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPOrg.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPRegion.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPRegion.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPv6.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPv6.dat X 2013,2018,2019
./bin/tests/system/geoip/data/README TXT.BRIEF 2013,2014,2016,2018,2019
./bin/tests/system/geoip/ns2/example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/geoip/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named10.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named11.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named12.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named13.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named14.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named15.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named3.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named4.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named5.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named6.conf.in CONF-C 2018,2019

./bin/tests/system/geoip/ns2/named7.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named8.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/ns2/named9.conf.in CONF-C 2018,2019
./bin/tests/system/geoip/options.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/geoip/prereq.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoip/setup.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoip/tests.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019
./bin/tests/system/glue/noglue.good X 2000,2001,2018,2019
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/mil.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/glue/ns1/net.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019
./bin/tests/system/glue/xx.good X 2000,2001,2018,2019
./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/gost/prereq.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019
./bin/tests/system/idna/clean.sh SH 2018,2019
./bin/tests/system/idna/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/idna/ns1/root.db ZONE 2018,2019
./bin/tests/system/idna/setup.sh SH 2018,2019
./bin/tests/system/idna/tests.sh SH 2018,2019
./bin/tests/system/ifconfig.bat BAT 2016,2018,2019
./bin/tests/system/ifconfig.sh SH 2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2016,2018,2019
./bin/tests/system/inline/checkdsa.sh.in SH 2013,2014,2016,2018,2019
./bin/tests/system/inline/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/inline/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns1/root.db.in ZONE 2011,2012,2013,2016,2017,2018,2019
./bin/tests/system/inline/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/inline/ns2/bits.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/inline/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns2/nsec3-loop.db ZONE 2017,2018,2019
./bin/tests/system/inline/ns3/master.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/inline/ns3/master2.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/inline/ns3/master3.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/inline/ns3/master4.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/inline/ns3/master5.db.in ZONE 2018,2019

./bin/tests/system/inline/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns3/sign.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/inline/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019
./bin/tests/system/inline/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns7/sign.sh SH 2017,2018,2019
./bin/tests/system/inline/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/inline/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/integrity/clean.sh SH 2017,2018,2019
./bin/tests/system/integrity/ns1/mx-cname.db ZONE 2017,2018,2019
./bin/tests/system/integrity/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/integrity/ns1/srv-cname.db ZONE 2017,2018,2019
./bin/tests/system/integrity/setup.sh SH 2018,2019
./bin/tests/system/integrity/tests.sh SH 2017,2018,2019
./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019
./bin/tests/system/ixfr/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/ixfr/ns1/startme X 2012,2013,2018,2019
./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/mytest2.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/ixfr/ns3/subtest0.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/subtest1.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/ixfr/prereq.sh SH 2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/ixfr/setup.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/ixfr/tests.sh SH 2001,2004,2007,2011,2012,2014,2016,2018,2019
./bin/tests/system/keymgr/01-ksk-inactive/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/01-ksk-inactive/expect X 2016,2018,2019
./bin/tests/system/keymgr/02-zsk-inactive/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/02-zsk-inactive/expect X 2016,2018,2019
./bin/tests/system/keymgr/03-ksk-unpublished/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/03-ksk-unpublished/expect X 2016,2018,2019
./bin/tests/system/keymgr/04-zsk-unpublished/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/04-zsk-unpublished/expect X 2016,2018,2019
./bin/tests/system/keymgr/05-ksk-unpub-active/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/05-ksk-unpub-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/06-zsk-unpub-active/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/06-zsk-unpub-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/07-ksk-ttl/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/07-ksk-ttl/expect X 2016,2018,2019
./bin/tests/system/keymgr/08-zsk-ttl/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/08-zsk-ttl/expect X 2016,2018,2019
./bin/tests/system/keymgr/09-no-keys/README TXT.BRIEF 2016,2018,2019

./bin/tests/system/keymgr/09-no-keys/expect X 2016,2018,2019
./bin/tests/system/keymgr/10-change-roll/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/10-change-roll/expect X 2016,2018,2019
./bin/tests/system/keymgr/11-many-simul/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/11-many-simul/expect X 2016,2018,2019
./bin/tests/system/keymgr/12-many-active/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/12-many-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/13-noroll/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/13-noroll/expect X 2016,2018,2019
./bin/tests/system/keymgr/14-wrongalg/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/14-wrongalg/expect X 2016,2018,2019
./bin/tests/system/keymgr/15-unspec/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/15-unspec/expect X 2016,2018,2019
./bin/tests/system/keymgr/16-wrongalg-unspec/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/16-wrongalg-unspec/expect X 2016,2018,2019
./bin/tests/system/keymgr/17-noforce/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/17-noforce/expect X 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/README TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/expect X 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/policy.conf CONF-C 2016,2018,2019
./bin/tests/system/keymgr/clean.sh SH 2016,2018,2019
./bin/tests/system/keymgr/policy.conf CONF-C 2016,2018,2019
./bin/tests/system/keymgr/policy.good X 2016,2018,2019
./bin/tests/system/keymgr/policy.sample CONF-C 2016,2017,2018,2019
./bin/tests/system/keymgr/prereq.sh SH 2016,2018,2019
./bin/tests/system/keymgr/setup.sh SH 2016,2018,2019
./bin/tests/system/keymgr/testpolicy.py PYTHON 2016,2018,2019
./bin/tests/system/keymgr/tests.sh SH 2016,2018,2019
./bin/tests/system/legacy/build.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns1/trusted.conf X 2014,2018,2019
./bin/tests/system/legacy/ns2/dropedns.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns2/named.dropedns X 2014,2018,2019
./bin/tests/system/legacy/ns3/dropedns-notcp.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns3/named.dropedns X 2014,2018,2019
./bin/tests/system/legacy/ns3/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns4/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns4/plain.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns5/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns5/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns5/plain-notcp.db ZONE 2014,2016,2018,2019

./bin/tests/system/legacy/ns6/edns512.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns6/edns512.db.signed X 2014,2018,2019
./bin/tests/system/legacy/ns6/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns6/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/ns7/edns512-notcp.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns7/edns512-notcp.db.signed X 2014,2018,2019
./bin/tests/system/legacy/ns7/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns7/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns7/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/limits/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/limits/knowngood.dig.out.1000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.2000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.3000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.4000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.a-maximum-rrset X 2000,2001,2018,2019
./bin/tests/system/limits/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/limits/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/limits/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/limits/setup.sh SH 2018,2019
./bin/tests/system/limits/tests.sh SH 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/logfileconfig/clean.sh SH 2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/controls.conf.in CONF-C 2018,2019
./bin/tests/system/logfileconfig/ns1/named.dirconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.pipeconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.plain CONF-C 2011,2013,2014,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.plainconf CONF-C 2014,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.symconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.unlimited CONF-C 2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.versconf CONF-C 2016,2018,2019
./bin/tests/system/logfileconfig/ns1/rndc.conf.in CONF-C 2011,2013,2016,2017,2018,2019
./bin/tests/system/logfileconfig/ns1/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/logfileconfig/setup.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/logfileconfig/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/lwresd/Makefile.in MAKE 2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/lwresd/clean.sh SH 2008,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/lwresd/lwresd1/lwresd.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/lwresd1/nosearch.conf CONF-C 2016,2018,2019
./bin/tests/system/lwresd/lwresd1/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/lwresd/lwtest.c C 2000,2001,2002,2004,2007,2008,2012,2013,2015,2016,2018,2019
./bin/tests/system/lwresd/ns1/10.10.10.in-addr.arpa.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/e.example1.db X 2008,2018,2019
./bin/tests/system/lwresd/ns1/example1.db ZONE 2000,2001,2002,2003,2004,2007,2008,2016,2018,2019
./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019

./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/named.conf CONF-C 2000,2001,2004,2006,2007,2008,2016,2018,2019
./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019
./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns1/ttl1.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns1/ttl2.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019
./bin/tests/system/masterfile/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterfile/setup.sh SH 2018,2019
./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019
./bin/tests/system/masterfile/zone/inheritownerafterinclude.db ZONE 2015,2016,2018,2019
./bin/tests/system/masterfile/zone/inheritownerafterinclude.good X 2015,2018,2019
./bin/tests/system/masterfile/zone/nameservers.db ZONE 2015,2016,2018,2019
./bin/tests/system/masterformat/clean.sh SH 2005,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/masterformat/ns1/compile.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterformat/ns1/example.db ZONE 2005,2007,2014,2016,2018,2019
./bin/tests/system/masterformat/ns1/large.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/masterformat/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/ns1/signed.db ZONE 2013,2016,2018,2019
./bin/tests/system/masterformat/ns2/formerly-text.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/masterformat/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/masterformat/setup.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterformat/tests.sh SH 2005,2007,2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/metadata/child.db ZONE 2009,2016,2018,2019
./bin/tests/system/metadata/clean.sh SH 2009,2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/metadata/parent.db ZONE 2009,2016,2018,2019
./bin/tests/system/metadata/prereq.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/metadata/setup.sh SH 2009,2011,2012,2014,2016,2018,2019
./bin/tests/system/metadata/tests.sh SH 2009,2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/mkeys/README TXT.BRIEF 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/clean.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/named3.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/root.db ZONE 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns1/sign.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns2/named.args X 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns3/named.args X 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns3/named.conf.in CONF-C 2018,2019

./bin/tests/system/mkeys/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns5/named1.args X 2017,2018,2019
./bin/tests/system/mkeys/ns5/named2.args X 2017,2018,2019
./bin/tests/system/mkeys/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/mkeys/setup.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/tests.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/names/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/names/ns1/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/names/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/names/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/names/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/notify/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/notify/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/notify/ns2/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example2.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example3.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example4.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/generic.db ZONE 2014,2016,2018,2019
./bin/tests/system/notify/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns4/named.port.in X 2018,2019
./bin/tests/system/notify/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns5/x21.db ZONE 2015,2016,2018,2019
./bin/tests/system/notify/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/notify/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/nslookup/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/nslookup/ns1/example.net.db ZONE 2016,2018,2019
./bin/tests/system/nslookup/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nslookup/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/nslookup/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/nsupdate/ans4/ans.pl PERL 2017,2018,2019
./bin/tests/system/nsupdate/clean.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/nsupdate/commandlist X 2012,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.after X 2000,2001,2003,2004,2009,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.afterstop X 2001,2004,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.before X 2000,2001,2003,2004,2009,2018,2019
./bin/tests/system/nsupdate/krb/setup.sh SH 2018,2019
./bin/tests/system/nsupdate/ns1/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/nsupdate/ns1/many.test.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/nsupdate/ns1/max-ttl.db ZONE 2014,2016,2018,2019
./bin/tests/system/nsupdate/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns1/sample.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns10/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns10/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns10/in-addr.db.in ZONE 2018,2019

./bin/tests/system/nsupdate/ns10/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns10/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns2/sample.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns3/delegation.test.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns3/dnskey.test.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/nsupdate/ns3/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/nsupdate/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns3/nsec3param.test.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/nsupdate/ns3/sign.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/nsupdate/ns3/too-big.test.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns5/local.db.in ZONE 2017,2018,2019
./bin/tests/system/nsupdate/ns5/named.args X 2017,2018,2019
./bin/tests/system/nsupdate/ns5/named.conf.in CONF-C 2017,2018,2019
./bin/tests/system/nsupdate/ns6/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns6/named.args X 2018,2019
./bin/tests/system/nsupdate/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns7/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns7/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns7/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns7/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns8/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns8/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns8/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns8/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns8/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns9/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns9/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns9/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns9/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns9/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/prereq.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/nsupdate/setup.sh SH 2000,2001,2004,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/nsupdate/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/nsupdate/update_test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/nsupdate/verylarge.in X 2013,2018,2019
./bin/tests/system/nzd2nzf/clean.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/ns1/added.db ZONE 2016,2018,2019
./bin/tests/system/nzd2nzf/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nzd2nzf/prereq.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/setup.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/tests.sh SH 2016,2018,2019
./bin/tests/system/org.isc.bind.system SH 2010,2012,2013,2016,2018,2019
./bin/tests/system/org.isc.bind.system.plist X 2010,2018,2019
./bin/tests/system/packet.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/pending/clean.sh SH 2009,2012,2014,2016,2018,2019

./bin/tests/system/pending/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns1/root.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns1/sign.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/pending/ns2/example.com.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns2/example.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns2/forgery.db ZONE 2010,2016,2018,2019
./bin/tests/system/pending/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns2/sign.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/pending/ns3/hostile.db ZONE 2009,2016,2018,2019
./bin/tests/system/pending/ns3/mail.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/pending/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/prereq.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/pending/setup.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/pending/tests.sh SH 2009,2010,2012,2015,2016,2018,2019
./bin/tests/system/pipelined/Makefile.in MAKE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/input X 2014,2015,2018,2019
./bin/tests/system/pipelined/inputb X 2014,2015,2018,2019
./bin/tests/system/pipelined/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/ns1/root.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns2/examplea.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/ns3/exampleb.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019
./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2015,2016,2018,2019
./bin/tests/system/pipelined/ref X 2014,2015,2018,2019
./bin/tests/system/pipelined/refb X 2014,2015,2018,2019
./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019
./bin/tests/system/pkcs11/prereq.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019
./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019
./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019
./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019
./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019

./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019
./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019
./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019
./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/example.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/redirect/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns2/redirect.db.in ZONE 2011.2013,2013,2016,2018,2019
./bin/tests/system/redirect/ns3/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns3/redirect.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019
./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/resolver/ans2/ans.pl PERL 2000,2001,2004,2007,2009,2010,2012,2016,2018,2019
./bin/tests/system/resolver/ans3/ans.pl PERL 2000,2001,2004,2007,2009,2012,2016,2018,2019
./bin/tests/system/resolver/ans8/ans.pl PERL 2017,2018,2019
./bin/tests/system/resolver/clean.sh SH 2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/resolver/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns1/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/resolver/ns4/broken.db ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns4/child.server.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns4/moves.db ZONE 2011,2016,2018,2019

./bin/tests/system/resolver/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns4/named.noaa TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/resolver/ns4/root.db ZONE 2010,2014,2015,2016,2017,2018,2019
./bin/tests/system/resolver/ns4/tld1.db ZONE 2012,2014,2016,2018,2019
./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019
./bin/tests/system/resolver/ns5/child.server.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns5/moves.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns5/root.hint ZONE 2010,2016,2018,2019
./bin/tests/system/resolver/ns6/broken.db ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns6/delegation-only.db ZONE 2015,2016,2018,2019
./bin/tests/system/resolver/ns6/ds.example.net.db.in ZONE 2016,2018,2019
./bin/tests/system/resolver/ns6/example.net.db.in ZONE 2010,2014,2016,2018,2019
./bin/tests/system/resolver/ns6/keygen.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/resolver/ns6/moves.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns6/no-edns-version.tld.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns6/root.db ZONE 2010,2011,2014,2016,2018,2019
./bin/tests/system/resolver/ns6/to-be-removed.tld.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns7/all-cnames.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns7/edns-version.tld.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns7/named.args X 2011,2012,2014,2018,2019
./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns7/named2.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns7/root.hint ZONE 2010,2016,2018,2019
./bin/tests/system/resolver/ns7/server.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/prereq.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/resolver/setup.sh SH 2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/resolver/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rndc/Makefile.in MAKE 2014,2015,2016,2018,2019
./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rndc/gencheck.c C 2014,2015,2016,2018,2019
./bin/tests/system/rndc/ns2/incl.db ZONE 2013,2016,2018,2019
./bin/tests/system/rndc/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/rndc/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns4/named.conf.in CONF-C 2013,2014,2015,2016,2018,2019
./bin/tests/system/rndc/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns6/named.args X 2016,2018,2019
./bin/tests/system/rndc/ns6/named.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rndc/setup.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rndc/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rootkeysentinel/clean.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns1/root.db.in ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns1/sign.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns2/example.db.in ZONE 2018,2019

./bin/tests/system/rootkeysentinel/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns2/sign.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns3/hint.db ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns4/hint.db ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/prereq.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/setup.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019
./bin/tests/system/rpz/clean.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rpz/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns1/root.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/base-tld2s.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/bl.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/blv2.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/blv3.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns2/tld2.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/base.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/crash1 X 2011,2013,2018,2019
./bin/tests/system/rpz/ns3/crash2 X 2011,2012,2013,2018,2019
./bin/tests/system/rpz/ns3/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns4/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns4/tld4.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns5/empty.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns5/hints ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns5/named.args X 2013,2014,2018,2019
./bin/tests/system/rpz/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns5/tld5.db ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns6/hints ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns7/hints ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/rpz/qperf.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/rpz/setup.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rpz/test1 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test2 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/test4 ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/test4a ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/test5 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test6 ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rpzrecurse/README TXT.BRIEF 2015,2016,2018,2019

./bin/tests/system/rpzrecurse/ans5/ans.pl PERL 2016,2018,2019
./bin/tests/system/rpzrecurse/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/db.l0 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/db.l1.l0 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpzrecurse/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/test1.example.net.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/test2.example.net.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip2 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip21 ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log2 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log3 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.clientip.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.clientip2.conf CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.conf.header.in CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.default.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.log.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.wildcard2.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/example.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/named1.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/named2.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/policy.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/root.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns4/child.example.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns4/named.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/testgen.pl PERL 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/rrchecker/classlist.good X 2013,2018,2019
./bin/tests/system/rrchecker/clean.sh SH 2013,2014,2016,2017,2018,2019
./bin/tests/system/rrchecker/privatelist.good X 2013,2018,2019
./bin/tests/system/rrchecker/tests.sh SH 2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rrchecker/typelist.good X 2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rrl/broken.conf CONF-C 2016,2018,2019
./bin/tests/system/rrl/clean.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/rrl/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns1/root.db ZONE 2012,2013,2016,2018,2019

./bin/tests/system/rrl/ns2/hints ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns2/tld2.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns3/hints ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns3/tld3.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns4/hints ZONE 2016,2018,2019
./bin/tests/system/rrl/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns4/tld4.db ZONE 2016,2018,2019
./bin/tests/system/rrl/setup.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/rrl/tests.sh SH 2012,2013,2015,2016,2018,2019
./bin/tests/system/rrsetorder/clean.sh SH 2006,2007,2008,2011,2012,2014,2016,2018,2019
./bin/tests/system/rrsetorder/dig.out.fixed.good X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good1 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good10 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good11 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good12 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good13 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good14 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good15 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good16 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good17 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good18 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good19 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good2 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good20 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good21 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good22 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good23 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good24 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good3 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good4 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good5 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good6 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good7 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good8 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019
./bin/tests/system/rrsetorder/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019
./bin/tests/system/rrsetorder/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/setup.sh SH 2018,2019
./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/Makefile.in MAKE 2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/bigkey.c C 2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/bad01.conf CONF-C 2012,2016,2018,2019

./bin/tests/system/rsabigexponent/conf/bad02.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/bad03.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good01.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good02.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good03.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.key X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.private X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.key X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/dsset-example.in X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/ns2/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/tests.sh SH 2012,2016,2018,2019
./bin/tests/system/run.sh SH 2000,2001,2004,2007,2010,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/runall.sh SH 2000,2001,2004,2007,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/runsequential.sh SH 2018,2019
./bin/tests/system/runtime/README TXT.BRIEF 2014,2016,2018,2019
./bin/tests/system/runtime/clean.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt1.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt2.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt3.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt4.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt5.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named-alt6.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/ns2/named1.conf.in CONF-C 2014,2016,2017,2018,2019
./bin/tests/system/runtime/setup.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/runtime/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/send.pl PERL 2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/sfcache/README TXT.BRIEF 2014,2016,2018,2019
./bin/tests/system/sfcache/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/sfcache/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/sfcache/ns1/root.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/sfcache/ns1/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/sfcache/ns2/example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/sfcache/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/sfcache/ns2/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/sfcache/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/sfcache/ns5/trusted.conf.bad CONF-C 2014,2016,2018,2019
./bin/tests/system/sfcache/prereq.sh SH 2014,2016,2018,2019

./bin/tests/system/sfcache/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/sfcache/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/smartsign/child.db ZONE 2010,2016,2018,2019
./bin/tests/system/smartsign/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/smartsign/parent.db ZONE 2010,2016,2018,2019
./bin/tests/system/smartsign/prereq.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/smartsign/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/smartsign/tests.sh SH 2010,2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/sortlist/clean.sh SH 2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/sortlist/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/sortlist/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/sortlist/setup.sh SH 2018,2019
./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/spf/ns1/spf.db ZONE 2013,2016,2018,2019
./bin/tests/system/spf/setup.sh SH 2018,2019
./bin/tests/system/spf/tests.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/start.pl SH
2001,2004,2005,2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/start.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/staticstub/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/staticstub/conf/bad01.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad02.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad03.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad04.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad05.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad06.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad07.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad08.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad09.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad10.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good01.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good02.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good03.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good04.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good05.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/knowngood.dig.out.rec X 2010,2013,2018,2019
./bin/tests/system/staticstub/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/staticstub/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns3/example.org.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns3/named.conf.in CONF-C 2010,2013,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/sign.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/undelegated.db.in ZONE 2015,2016,2018,2019

./bin/tests/system/staticstub/ns4/example.com.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/example.info.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/example.org.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/staticstub/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/staticstub/ns4/sub.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/staticstub/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/staticstub/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019
./bin/tests/system/statistics/ans4/ans.pl PERL 2012,2016,2018,2019
./bin/tests/system/statistics/clean.sh SH 2012,2014,2015,2016,2018,2019
./bin/tests/system/statistics/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns1/root.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns1/zone.db ZONE 2015,2016,2018,2019
./bin/tests/system/statistics/ns2/example.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns2/internal.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns3/internal.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns3/root.hint ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/statistics/setup.sh SH 2018,2019
./bin/tests/system/statistics/tests.sh SH 2012,2015,2016,2018,2019
./bin/tests/system/statschannel/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/fetch.pl PERL 2015,2016,2018,2019
./bin/tests/system/statschannel/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/statschannel/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/statschannel/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/server-json.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/server-xml.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/setup.sh SH 2018,2019
./bin/tests/system/statschannel/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/traffic-json.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/traffic-xml.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/traffic.expect.1 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.2 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.4 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.5 X 2015,2016,2018,2019
./bin/tests/system/statschannel/traffic.expect.6 X 2015,2016,2018,2019
./bin/tests/system/stop.pl SH 2001,2004,2005,2006,2007,2012,2016,2018,2019
./bin/tests/system/stop.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stopall.sh SH 2018,2019
./bin/tests/system/stress/clean.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/stress/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/ns3/named.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/stress/ns4/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/prereq.sh SH 2015,2016,2018,2019

./bin/tests/system/stress/setup.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stress/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stress/tests.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/stress/update.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stub/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/stub/knowngood.dig.out.norec X 2000,2001,2018,2019
./bin/tests/system/stub/knowngood.dig.out.rec X 2000,2001,2013,2018,2019
./bin/tests/system/stub/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns2/child.example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/ns3/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/setup.sh SH 2018,2019
./bin/tests/system/stub/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019
./bin/tests/system/tcp/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/tcp/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/tcp/ns2/example.db ZONE 2014,2016,2018,2019
./bin/tests/system/tcp/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/setup.sh SH 2018,2019
./bin/tests/system/tcp/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/testcrypto.sh SH 2014,2016,2017,2018,2019
./bin/tests/system/testsock.pl PERL 2000,2001,2004,2007,2010,2011,2012,2013,2016,2018,2019
./bin/tests/system/testsock6.pl PERL 2010,2012,2014,2016,2018,2019
./bin/tests/system/testsummary.sh SH 2018,2019
./bin/tests/system/tkey/Makefile.in MAKE 2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/tkey/clean.sh SH 2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/tkey/keycreate.c C 2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/tkey/keydelete.c C 2001,2004,2005,2007,2009,2010,2011,2014,2015,2016,2018,2019
./bin/tests/system/tkey/ns1/example.db ZONE 2013,2016,2018,2019
./bin/tests/system/tkey/ns1/named.conf.in CONF-C 2001,2004,2007,2009,2011,2013,2014,2016,2018,2019
./bin/tests/system/tkey/ns1/setup.sh SH 2001,2004,2007,2009,2012,2014,2016,2018,2019
./bin/tests/system/tkey/prereq.sh SH 2001,2004,2006,2007,2009,2012,2014,2016,2018,2019
./bin/tests/system/tkey/setup.sh SH 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019
./bin/tests/system/tkey/tests.sh SH 2001,2004,2007,2009,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/tsig/clean.sh SH 2005,2006,2007,2012,2014,2016,2018,2019
./bin/tests/system/tsig/ns1/example.db ZONE 2005,2006,2007,2009,2012,2016,2018,2019
./bin/tests/system/tsig/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tsig/setup.sh SH 2016,2018,2019
./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019
./bin/tests/system/tsiggss/authsock.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/tsiggss/clean.sh SH 2010,2011,2014,2015,2016,2018,2019
./bin/tests/system/tsiggss/ns1/administrator.ccache X 2010,2018,2019
./bin/tests/system/tsiggss/ns1/dns.keytab X 2010,2018,2019
./bin/tests/system/tsiggss/ns1/example.nil.db.in X 2011,2018,2019

./bin/tests/system/tsiggss/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tsiggss/ns1/testdenied.ccache X 2010,2018,2019
./bin/tests/system/tsiggss/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/tsiggss/setup.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/tsiggss/tests.sh SH 2010,2011,2014,2016,2017,2018,2019
./bin/tests/system/unknown/clean.sh SH 2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/unknown/large.out X 2012,2018,2019
./bin/tests/system/unknown/ns1/broken1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken3.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken4.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken5.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/class10.hints ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/example-class10.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/example-in.db ZONE 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/unknown/ns1/large.db ZONE 2012,2016,2018,2019
./bin/tests/system/unknown/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns3/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/unknown/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/unknown/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/unknown/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019
./bin/tests/system/unknown/zones/nan.bad ZONE 2013,2016,2018,2019
./bin/tests/system/upforwd/ans4/ans.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/upforwd/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/upforwd/knowngood.after1 X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.after2 X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.before X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.ns2.before X 2000,2001,2018,2019
./bin/tests/system/upforwd/ns1/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/upforwd/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019
./bin/tests/system/upforwd/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/upforwd/setup.sh SH 2000,2001,2004,2007,2011,2012,2014,2016,2018,2019
./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/verify/tests.sh SH 2012,2013,2016,2017,2018,2019
./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/verify/zones/unsigned.db ZONE 2012,2016,2018,2019
./bin/tests/system/views/clean.sh SH 2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019

./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns2/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns5/child.clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/views/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/views/tests.sh SH 2000,2001,2004,2007,2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/clean.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/ns1/dlv.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/named.conf.in CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/nsec.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/nsec3.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/private.nsec.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/private.nsec3.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/root.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/sign.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/ns2/hints ZONE 2012,2016,2018,2019
./bin/tests/system/wildcard/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns3/hints ZONE 2012,2016,2018,2019
./bin/tests/system/wildcard/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns5/hints ZONE 2013,2016,2018,2019
./bin/tests/system/wildcard/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/wildcard/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/wildcard/tests.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/win32/bigkey.dsp.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.dsw X 2016,2018,2019
./bin/tests/system/win32/bigkey.mak.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/feature-test.dsp.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.dsw X 2016,2018,2019
./bin/tests/system/win32/feature-test.mak.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/gencheck.dsp.in X 2016,2018,2019

./bin/tests/system/win32/gencheck.dsw X 2016,2018,2019
./bin/tests/system/win32/gencheck.mak.in X 2016,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/keycreate.dsp.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.dsw X 2016,2018,2019
./bin/tests/system/win32/keycreate.mak.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/keydelete.dsp.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.dsw X 2016,2018,2019
./bin/tests/system/win32/keydelete.mak.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/lwtest.dsp.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.dsw X 2016,2018,2019
./bin/tests/system/win32/lwtest.mak.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/pipequeries.dsp.in X 2016,2018,2019
./bin/tests/system/win32/pipequeries.dsw X 2016,2018,2019
./bin/tests/system/win32/pipequeries.mak.in X 2016,2018,2019
./bin/tests/system/win32/pipequeries.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/pipequeries.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/pipequeries.vcxproj.user X 2016,2018,2019
./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019
./bin/tests/system/xfer/ans5/goodaxfr X 2011,2018,2019
./bin/tests/system/xfer/ans5/partial X 2011,2018,2019
./bin/tests/system/xfer/ans5/unknownkey X 2011,2018,2019
./bin/tests/system/xfer/ans5/unsigned X 2011,2018,2019
./bin/tests/system/xfer/ans5/wrongkey X 2011,2018,2019
./bin/tests/system/xfer/clean.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xfer/dig1.good X 2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/xfer/dig2.good X 2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/xfer/knowngood.mapped X 2016,2018,2019
./bin/tests/system/xfer/ns1/axfr-too-big.db ZONE 2016,2018,2019
./bin/tests/system/xfer/ns1/ixfr-too-big.db.in ZONE 2016,2018,2019
./bin/tests/system/xfer/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xfer/ns2/mapped.db.in ZONE 2016,2018,2019
./bin/tests/system/xfer/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns2/slave.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/xfer/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns4/named.conf.base CONF-C 2011,2013,2016,2018,2019

./bin/tests/system/xfer/ns4/root.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/xfer/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns8/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/xfer/ns8/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/prereq.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/xfer/setup.sh SH 2001,2002,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xfer/tests.sh SH 2000,2001,2004,2005,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xferquota/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/xferquota/ns1/changing1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns1/changing2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/xferquota/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns2/example.db ZONE 2000,2001,2002,2003,2004,2007,2009,2016,2018,2019
./bin/tests/system/xferquota/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/xferquota/setup.pl PERL 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/xferquota/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/zero/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019
./bin/tests/system/zero/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019
./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019
./bin/tests/system/zero/prereq.sh SH 2018,2019
./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/zonechecks/nxdomain.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019
./bin/tests/testdata/wire/wire_test.data X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data2 X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data3 X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data4 X 1999,2000,2001,2018,2019

./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/sign.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/sign.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/cleanall.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/common/controls.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/common/rndc.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/common/root.hint ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/conf.sh.in SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/run.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/runall.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/slave/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/slave/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/slave/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/start.pl PERL 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/start.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/stop.pl PERL 2010,2012,2016,2018,2019
./bin/tests/virtual-time/stop.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/testsock.pl PERL 2010,2012,2016,2018,2019
./bin/tests/virtual-time/vtwrapper.c C 2010,2016,2018,2019
./bin/tests/win32/backtrace_test.dsp.in X 2013,2018,2019
./bin/tests/win32/backtrace_test.dsw X 2013,2018,2019
./bin/tests/win32/backtrace_test.mak.in X 2013,2018,2019
./bin/tests/win32/backtrace_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/backtrace_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/backtrace_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/inter_test.dsp.in X 2013,2018,2019
./bin/tests/win32/inter_test.dsw X 2013,2018,2019
./bin/tests/win32/inter_test.mak.in X 2013,2018,2019

./bin/tests/win32/inter_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/inter_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/inter_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/makejournal.dsp.in X 2016,2018,2019
./bin/tests/win32/makejournal.dsw X 2016,2018,2019
./bin/tests/win32/makejournal.mak.in X 2016,2018,2019
./bin/tests/win32/makejournal.vcxproj.filters.in X 2016,2018,2019
./bin/tests/win32/makejournal.vcxproj.in X 2016,2017,2018,2019
./bin/tests/win32/makejournal.vcxproj.user X 2016,2018,2019
./bin/tests/win32/rwlock_test.dsp.in X 2013,2018,2019
./bin/tests/win32/rwlock_test.dsw X 2013,2018,2019
./bin/tests/win32/rwlock_test.mak.in X 2013,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/shutdown_test.dsp.in X 2013,2018,2019
./bin/tests/win32/shutdown_test.dsw X 2013,2018,2019
./bin/tests/win32/shutdown_test.mak.in X 2013,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/sock_test.dsp.in X 2013,2018,2019
./bin/tests/win32/sock_test.dsw X 2013,2018,2019
./bin/tests/win32/sock_test.mak.in X 2013,2018,2019
./bin/tests/win32/sock_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/sock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/sock_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/task_test.dsp.in X 2013,2018,2019
./bin/tests/win32/task_test.dsw X 2013,2018,2019
./bin/tests/win32/task_test.mak.in X 2013,2018,2019
./bin/tests/win32/task_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/task_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/task_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/timer_test.dsp.in X 2013,2018,2019
./bin/tests/win32/timer_test.dsw X 2013,2018,2019
./bin/tests/win32/timer_test.mak.in X 2013,2018,2019
./bin/tests/win32/timer_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/timer_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/timer_test.vcxproj.user X 2013,2018,2019
./bin/tests/wire_test.c C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019
./bin/tools/Makefile.in MAKE 2009,2010,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tools/arpaname.1 MAN DOCBOOK
./bin/tools/arpaname.c C 2009,2015,2016,2018,2019
./bin/tools/arpaname.docbook SGML 2009,2014,2015,2016,2018,2019
./bin/tools/arpaname.html HTML DOCBOOK
./bin/tools/dnstap-read.1 MAN DOCBOOK
./bin/tools/dnstap-read.c C 2015,2016,2018,2019
./bin/tools/dnstap-read.docbook SGML 2015,2016,2018,2019

./bin/tools/dnstap-read.html HTML DOCBOOK
./bin/tools/genrandom.8 MAN DOCBOOK
./bin/tools/genrandom.c C 2000,2001,2002,2003,2004,2005,2007,2009,2010,2012,2014,2016,2018,2019
./bin/tools/genrandom.docbook SGML 2009,2010,2011,2014,2015,2016,2018,2019
./bin/tools/genrandom.html HTML DOCBOOK
./bin/tools/isc-hmac-fixup.8 MAN DOCBOOK
./bin/tools/isc-hmac-fixup.c C 2010,2014,2015,2016,2018,2019
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./win32utils/legacy/makedefs.pl PERL 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019
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1.205 libtirpc 1.3.5

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1.206 argparse 1.2.1

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1.207 meld 1.0.2

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1.209 wsgiref 0.1.2

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Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
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Author: Phillip J. Eby
Author-email: web-sig@python.org
License: PSF or ZPL
Description: This is a standalone release of the ``wsgiref`` library to be included in
    Python 2.5. For the standalone version's documentation, see:

    HTML
    http://peak.telecommunity.com/wsgiref_docs/

    PDF
    http://peak.telecommunity.com/wsgiref.pdf

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2162651583_1724840229.8275998/0/wsgiref-0-1-2-zip/wsgiref-0.1.2/PKG-INFO
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1.210 packaging 16.8

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1.212 jansson 1.17

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1.213 grpc-go 1.29.1

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1.214 pflag 1.0.6-0.20201009195203-85dd5c8bc61c

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1.215 cpp 6.3.0

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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* m4/ax_func_which_gethostbyname_r.m4

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<one line to give the program's name and a brief idea of what it does.>
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<program> Copyright (C) <year> <name of author>
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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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b) Accompany the object code with a copy of the GNU GPL and this license document.

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

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

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LLVM Team

University of Illinois at Urbana-Champaign

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@appendixsubsec Preamble

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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.

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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 @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
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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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@end ifinfo

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Library'' means
either the Library or any derivative work under
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included without limitation in the term ``modification''.)

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

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

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

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

These requirements apply to the modified work as a whole. If
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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 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
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therefore falls outside the scope of this License.

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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
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engineering for debugging such modifications.

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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:

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

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

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@item
Verify that the user has already received a copy of these
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@end enumerate

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reproducing

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@enumerate a
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facilities. This must be distributed under the terms of the
Sections above.

@item
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that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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1.216 cpp 6.5

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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* m4/ax_func_which_gethostbyname_r.m4

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@page
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Ty Coon, President of Vice
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That's all there is to it!

1.217 stack 1.7.0

1.217.1 Available under license :

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1.218 afero 1.0.6-0.20201009195203-85dd5c8bc61c

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1.219 e2fsprogs 1.44.2

1.219.1 Available under license :

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

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

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

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

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0

```
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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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 is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.221 goprotobuf 1.5.2

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.222 autogen 0.2.36

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Tests

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

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

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

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

Running tests locally

To run tests, install the [test] option:

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

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

```bash
pytest test
```

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

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

Skip flags for tests

- `--skip-openai` for skipping tests that require access to OpenAI services.
- `--skip-docker` for skipping tests that explicitly use docker
- `--skip-redis` for skipping tests that require a Redis server

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

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

Coverage

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

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

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

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

Pre-commit

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

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Docker for Development

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

equipped environment.

Autogen Developer Image (autogen_dev_img)

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

Building the Developer Docker Image

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

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

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

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

# cd to your new directory
cd autogen

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

Using the Developer Docker Image

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

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

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

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

Develop in Remote Container

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

Guidance for Maintainers

General

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

Pull Requests

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

- For old PR, check the blocker: reviewer or PR creator. Try to unblock. Get additional help when needed.
- When requesting changes, make sure you can check back in time because it blocks merging.
- Make sure all the checks are passed.
- For changes that require running OpenAI tests, make sure the OpenAI tests pass too. Running these tests requires approval.
- In general, suggest small PRs instead of a giant PR.
- For documentation change, request snapshot of the compiled website, or compile by yourself to verify the format.
- For new contributors who have not signed the contributing agreement, remind them to sign before reviewing.
- For multiple PRs which may have conflict, coordinate them to figure out the right order.
- Pay special attention to:
  - Breaking changes. Dont make breaking changes unless necessary. Dont merge to main until enough headsup is provided and a new release is ready.
  - Test coverage decrease.
  - Changes that may cause performance degradation. Do regression test when test suites are available.
  - Discourage **change to the core library** when there is an alternative.

Issues and Discussions

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

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

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

Name	GitHub Handle	Organization	Features	Roadmap Lead	Additional Information
Qingyun Wu	[qingyun-wu](https://github.com/qingyun-wu)	Penn State University	all, alt-models, autobuilder	Yes	Available most of the time (US Eastern Time)
Chi Wang	[sonichi](https://github.com/sonichi)	-	all	Yes	
Li Jiang	[thinkall](https://github.com/thinkall)	Microsoft	rag, autobuilder, group chat	Yes	[Issue #1657](https://github.com/microsoft/autogen/issues/1657) - Beijing, GMT+8
Mark Sze	[marklysze](https://github.com/marklysze)	-	alt-models, group chat	No	Generally available (Sydney, AU time) - Group Chat "auto" speaker selection
Hrushikesh Dokala	[Hk669](https://github.com/Hk669)	-	alt-models, swebench, logging, rag	No	[Issue #2946](https://github.com/microsoft/autogen/issues/2946), [Pull Request #2933](https://github.com/microsoft/autogen/pull/2933) - Available most of the time (India, GMT+5:30)
Jiale Liu	[LeoLjl](https://github.com/LeoLjl)	Penn State University	autobuild, group chat	No	
Shaokun Zhang	[skzhang1](https://github.com/skzhang1)	Penn State University	AgentOptimizer, Teachability	Yes	[Issue #521](https://github.com/microsoft/autogen/issues/521)
Rajan Chari	[rajan-chari](https://github.com/rajan-chari)	Microsoft Research	CAP, Survey of other frameworks	No	
Victor Dibia	[victordibia](https://github.com/victordibia)	Microsoft Research	autogenstudio	Yes	[Issue #737](https://github.com/microsoft/autogen/issues/737)
Yixuan Zhai	[randombet](https://github.com/randombet)	Meta	group chat, sequential_chats, rag	No	
Xiaoyun Zhang	[LittleLittleCloud](https://github.com/LittleLittleCloud)	Microsoft	AutoGen.Net, group chat	Yes	[Backlog - AutoGen.Net](https://github.com/microsoft/autogen/issues) - Available most of the time (PST)
Yiran Wu	[yiranwu0](https://github.com/yiranwu0)	Penn State University	alt-models, group chat, logging	Yes	
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Gagan Bansal	[gagb](https://github.com/gagb)	Microsoft Research	All		
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I would like to join this list. How can I help the project?
> We're always looking for new contributors to join our team and help improve the project. For more information, please refer to our [CONTRIBUTING](https://microsoft.github.io/autogen/docs/contributor-guide/contributing) guide.

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

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Documentation

How to get a notebook rendered on the website

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

Build documentation locally

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

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

Then, install `yarn` and other required packages:

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

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

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

```console
cd website
yarn install --frozen-lockfile --ignore-engines
pydoc-markdown
python process_notebooks.py
 render
yarn start
```

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

Build with Docker

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

to build your image:

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

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

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

Once at the CLI in Docker run the following commands:

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

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

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

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

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

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

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

- Please ensure all **code snippets and error messages are formatted in
 appropriate code blocks**. See [Creating and highlighting code blocks](https://help.github.com/articles/creating-

and-highlighting-code-blocks)
for more details.
Contributing to AutoGen

The project welcomes contributions from developers and organizations worldwide. Our goal is to foster a collaborative and inclusive community where diverse perspectives and expertise can drive innovation and enhance the project's capabilities. Whether you are an individual contributor or represent an organization, we invite you to join us in shaping the future of this project. Together, we can build something truly remarkable. Possible contributions include but not limited to:

- Pushing patches.
- Code review of pull requests.
- Documentation, examples and test cases.
- Readability improvement, e.g., improvement on docstr and comments.
- Community participation in [issues](https://github.com/microsoft/autogen/issues), [discussions](https://github.com/microsoft/autogen/discussions), [discord](https://aka.ms/autogen-dc), and [twitter](https://twitter.com/pyautogen).
- Tutorials, blog posts, talks that promote the project.
- Sharing application scenarios and/or related research.

Most contributions require you to agree to a Contributor License Agreement (CLA) declaring that you have the right to, and actually do, grant us the rights to use your contribution. For details, visit <https://cla.opensource.microsoft.com>.

If you are new to GitHub [here](https://help.github.com/categories/collaborating-with-issues-and-pull-requests/) is a detailed help source on getting involved with development on GitHub.

When you submit a pull request, a CLA bot will automatically determine whether you need to provide a CLA and decorate the PR appropriately (e.g., status check, comment). Simply follow the instructions provided by the bot. You will only need to do this once across all repos using our CLA.

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For more information see the [Code of Conduct FAQ](https://opensource.microsoft.com/codeofconduct/faq/) or contact opencode@microsoft.com with any additional questions or comments.

Roadmaps

To see what we are working on and what we plan to work on, please check our [Roadmap Issues](https://aka.ms/autogen-roadmap).

Becoming a Reviewer

There is currently no formal reviewer solicitation process. Current reviewers identify reviewers from active contributors. If you are willing to become a reviewer, you are welcome to let us know on discord.

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