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Text Part Number: 78EE117C99-159579612

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## 1.3 apache-cxf 3.1.1

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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<html xmlns="http://www.w3.org/1999/xhtml">
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<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body text="#000000" bgcolor="#FFFFFF">
<h1>W3C<sup>&reg;</sup> SOFTWARE NOTICE AND LICENSE</h1>
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
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- javaee\_web\_services\_client\_1\_4.xsd
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- javaee\_6.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd

- web-common\_3\_1.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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```
Gnomovision version 69, Copyright (C) year 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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```
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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 1.7 base-passwd 3.5.29

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: doc/\*

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  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

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

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```

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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;
}

/* Initialize 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 than 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. */
#ifdef(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 than 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)
        {
            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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Version 2.1, February 1999

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.10 bcprov-jdk15 1.51

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<body bgcolor=#ffffff>

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</body>

</html>

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\*/

```
public class LICENSE
```

```
{
```

```
    public static String licenseText =  
        "Copyright (c) 2000-2014 The Legion of the Bouncy Castle Inc. (http://www.bouncycastle.org) "  
        + System.getProperty("line.separator")  
        + System.getProperty("line.separator")  
        + "Permission is hereby granted, free of charge, to any person obtaining a copy of this software "  
        + System.getProperty("line.separator")  
        + "and associated documentation files (the \"Software\"), to deal in the Software without restriction, "  
        + System.getProperty("line.separator")  
        + "including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, "  
        + System.getProperty("line.separator")  
        + "and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,"  
        + System.getProperty("line.separator")  
        + "subject to the following conditions:"  
        + System.getProperty("line.separator")  
        + System.getProperty("line.separator")  
        + "The above copyright notice and this permission notice shall be included in all copies or substantial"  
        + System.getProperty("line.separator")  
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HOLDERS BE"  
        + System.getProperty("line.separator")  
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CONTRACT, TORT OR"  
        + System.getProperty("line.separator")  
        + "OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE  
OR OTHER"  
        + System.getProperty("line.separator")
```

```
+ "DEALINGS IN THE SOFTWARE.";

public static void main(
    String[] args)
{
    System.out.println(licenseText);
}
}
```

## 1.11 bind 9.10.2-P4

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Redistribution terms Automated Testing Framework

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

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 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

# 1.12 bison 3.0.4

## 1.12.1 Available under license :

```
#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(
    (?:\n)
    #BEFORE
    (?
        b4_copyright\(\[[^\]]*\]
        | m4_(?:push|pop)def\(\[b4_copyright_years]
    )
    #AFTER
)
(?:
    ,\s*
```

```

(
  \[s* (?:\d{4}(?:,s*|-))* (\d{4}) \s*]
)
)?
\)
EOF
;

while (/(Sold_re)/gx)
{
  my $start = pos() - length ($1);
  my $b4_copyright_line = $2;
  my $year_lines = $3;
  my $final_year = $4;
  $year_lines .= ');

  # If there was a second argument, it contains years, so update them.
  if ($final_year)
  {
    $b4_copyright_line .= ',';
    if ($final_year != $this_year)
    {
      # Update the year.
      $year_lines =~ s/$final_year/$final_year, $this_year/;
    }

    # Normalize all whitespace.
    $year_lines =~ s/\s+/ /g;

    # Put spaces after commas.
    $year_lines =~ s/, ?, /g;

    # Compress to intervals.
    $year_lines =~
    s/
    (\d{4})
    (?
    (, \ | -)
    ((?){
      if ($2 eq '-') { "\d{4}"; }
      elsif (!$3)    { $1 + 1; }
      else          { $3 + 1; }
    }
    ))
    )+
    /$1-$3/gx;

    # Format within margin.
    my $year_lines_new;

```



```

my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^\n/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)/)
        || ($year_lines =~ s/^([\S]+)(?: |$)/))
    {
        my $line = "\n" . ('x'$indent) . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    }
    else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re/G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ("b4_copyright_line$year_lines_new");
}
}

while (/(\bb4_copyright\()/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/^\#BEFORE\G/;
    if (!$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright\n";
    }
    pos () = $end;
}

while (/(\[b4_copyright_years])/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();

```

```

my $re = $old_re;
$re =~ s/^#AFTER^\\G/;
if (!$re/x)
{
# The substr operation blows away pos (), so restoring pos ()
# at the end is necessary.
my $line = (substr ($_, 0, $start) =~ s/^n^/g) + 1;
print STDERR
"$ARGV:$line: warning: failed to update a"
. " b4_copyright_years\n";
}
pos () = $end;
}

```

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Version 3, 29 June 2007

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## 1.13 bluez5 5.33

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Version 2.1, February 1999

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<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
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<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

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

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

Some other contributors:

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

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

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility. (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on  
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

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

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

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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

\*/

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```
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```

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```
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```

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

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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

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

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

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

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## 1.31 cracklib 2.9.5

### 1.31.1 Available under license :

```
-----
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----
```

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML



On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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

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

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

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

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec

> directly  
>> and see if he wants to relicense his code as LGPL... but at this  
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>> it was enough to just get it consistent and documented as to what  
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>=20  
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> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

(where it is not already GPL).

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
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>>> by me.  
>>  
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>> What I am hearing so far is that LGPL makes sense, since it can be  
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> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
>> make the change now ?  
>  
> yes. go for it. thanks++

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

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

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

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

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

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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

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

Happy now? :-)

-a

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Version 2.1, February 1999

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

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

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## 1.32 cronie 1.5.0

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/\* \$NetBSD: popen.c,v 1.9 2005/03/16 02:53:55 xtraeme Exp \$ \*/

/\*

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\*

\*/

#include "config.h"

#include <errno.h>

#include <pwd.h>

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <sys/wait.h>

#include <unistd.h>

#include "funcs.h"

#include "globals.h"

#include "macros.h"

#ifdef HAVE\_SYS\_CDEFS\_H

# include <sys/cdefs.h>

```

#endif

#include <signal.h>

/*
 * Special version of popen which avoids call to shell. This insures noone
 * may create a pipe to a hidden program as a side effect of a list or dir
 * command.
 */
static PID_T *pids;
static int fds;

#define MAX_ARGS 1024

FILE *cron_popen(char *program, const char *type, struct passwd *pw, char **jobenv) {
    char *cp;
    FILE *iop;
    int argc, pdes[2];
    PID_T pid;
    char *argv[MAX_ARGS];
    ssize_t out;
    char buf[PIPE_BUF];
    struct sigaction sa;
    int fd;

#ifdef __GNUCC__
    (void) &iop; /* Avoid fork clobbering */
#endif

    if ((*type != 'r' && *type != 'w') || type[1])
        return (NULL);

    if (!pids) {
        if ((fds = getdtablesize()) <= 0)
            return (NULL);
        if (!(pids = (PID_T *) malloc((u_int) (fds * sizeof (PID_T))))
            return (NULL);
        memset((char *) pids, 0, fds * sizeof (PID_T));
    }
    if (pipe(pdes) < 0)
        return (NULL);

    /* break up string into pieces */
    for (argc = 0, cp = program; argc < MAX_ARGS; cp = NULL)
        if (!(argv[argc++] = strtok(cp, "\t\n")))
            break;

    iop = NULL;

```

```

switch (pid = fork()) {
case -1: /* error */
(void) close(pdes[0]);
(void) close(pdes[1]);
goto pfree;
/* NOTREACHED */
case 0: /* child */
if (*type == 'r') {
if (pdes[1] != STDOUT) {
dup2(pdes[1], STDOUT);
dup2(pdes[1], STDERR); /* stderr, too! */
(void) close(pdes[1]);
}
(void) close(pdes[0]);
}
else {
if (pdes[0] != STDIN) {
dup2(pdes[0], STDIN);
(void) close(pdes[0]);
}
(void) close(pdes[1]);
}

/* reset SIGPIPE to default for the child */
memset(&sa, 0, sizeof(sa));
sa.sa_handler = SIG_DFL;
sigaction(SIGPIPE, &sa, NULL);

/* close all unwanted open file descriptors */
for (fd = STDERR + 1; fd < fds; fd++) {
close(fd);
}

if (cron_change_user_permanently(pw, env_get("HOME", jobenv)) != 0)
_exit(2);

if (execvpe(argv[0], argv, jobenv) < 0) {
int save_errno = errno;

log_it("CRON", getpid(), "EXEC FAILED", program, save_errno);
if (*type != 'r') {
while (0 != (out = read(STDIN, buf, PIPE_BUF))) {
if ((out == -1) && (errno != EINTR))
break;
}
}
}
_exit(1);

```

```

}
/* parent; assume fdopen can't fail... */
if (*type == 'r') {
    iop = fdopen(pdes[0], type);
    (void) close(pdes[1]);
}
else {
    iop = fdopen(pdes[1], type);
    (void) close(pdes[0]);
}
pids[fileno(iop)] = pid;

pfree:
return (iop);
}

int cron_pclose(FILE * iop) {
    int fdes;
    sigset_t oset, nset;
    WAIT_T stat_loc;
    PID_T pid;

    /*
     * pclose returns -1 if stream is not associated with a
     * `popened' command, or, if already `pclosed'.
     */
    if (pids == 0 || pids[fdes = fileno(iop)] == 0)
        return (-1);
    (void) fclose(iop);

    sigemptyset(&nset);
    sigaddset(&nset, SIGINT);
    sigaddset(&nset, SIGQUIT);
    sigaddset(&nset, SIGHUP);
    (void) sigprocmask(SIG_BLOCK, &nset, &oset);
    while ((pid = wait(&stat_loc)) != pids[fdes] && pid != -1) ;
    (void) sigprocmask(SIG_SETMASK, &oset, NULL);
    pids[fdes] = 0;
    return (pid == -1 ? -1 : WEXITSTATUS(stat_loc));
}
/*
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## 1.34 cryptodev-linux 1.7

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## 1.35 curl 7.44.0

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=====  
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## 1.36 db 6.0.30



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- \*
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- \* on the Program.
- \*
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- \* work under this License, and how to view a copy of this License. If
- \* the interface presents a list of user commands or options, such as a
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- \*
- \* 1. Source Code.
- \*
- \* The "source code" for a work means the preferred form of the work
- \* for making modifications to it. "Object code" means any non-source
- \* form of a work.
- \*
- \* A "Standard Interface" means an interface that either is an official
- \* standard defined by a recognized standards body, or, in the case of
- \* interfaces specified for a particular programming language, one that
- \* is widely used among developers working in that language.
- \*
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- \* Component, and (b) serves only to enable use of the work with that
- \* Major Component, or to implement a Standard Interface for which an
- \* implementation is available to the public in source code form. A
- \* "Major Component", in this context, means a major essential component
- \* (kernel, window system, and so on) of the specific operating system
- \* (if any) on which the executable work runs, or a compiler used to
- \* produce the work, or an object code interpreter used to run it.
- \*
- \* The "Corresponding Source" for a work in object code form means all
- \* the source code needed to generate, install, and (for an executable
- \* work) run the object code and to modify the work, including scripts to
- \* control those activities. However, it does not include the work's
- \* System Libraries, or general-purpose tools or generally available free
- \* programs which are used unmodified in performing those activities but
- \* which are not part of the work. For example, Corresponding Source
- \* includes interface definition files associated with source files for
- \* the work, and the source code for shared libraries and dynamically
- \* linked subprograms that the work is specifically designed to require,
- \* such as by intimate data communication or control flow between those

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\*

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\* it, and giving a relevant date.

\*

\* b) The work must carry prominent notices stating that it is  
\* released under this License and any conditions added under section  
\* 7. This requirement modifies the requirement in section 4 to  
\* "keep intact all notices".

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\* 6. Conveying Non-Source Forms.

\*

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\* of sections 4 and 5, provided that you also convey the  
\* machine-readable Corresponding Source under the terms of this License,  
\* in one of these ways:

\*

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

\*

\* b) Convey the object code in, or embodied in, a physical product  
\* (including a physical distribution medium), accompanied by a  
\* written offer, valid for at least three years and valid for as  
\* long as you offer spare parts or customer support for that product  
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\* product that is covered by this License, on a durable physical  
\* medium customarily used for software interchange, for a price no  
\* more than your reasonable cost of physically performing this  
\* conveying of source, or (2) access to copy the  
\* Corresponding Source from a network server at no charge.

\*

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

\*

\* d) Convey the object code by offering access from a designated  
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\* further charge. You need not require recipients to copy the  
\* Corresponding Source along with the object code. If the place to  
\* copy the object code is a network server, the Corresponding Source  
\* may be on a different server (operated by you or a third party)  
\* that supports equivalent copying facilities, provided you maintain  
\* clear directions next to the object code saying where to find the  
\* Corresponding Source. Regardless of what server hosts the  
\* Corresponding Source, you remain obligated to ensure that it is  
\* available for as long as needed to satisfy these requirements.

\*

\* e) Convey the object code using peer-to-peer transmission, provided

- \* you inform other peers where the object code and Corresponding
- \* Source of the work are being offered to the general public at no
- \* charge under subsection 6d.
- \*
- \* A separable portion of the object code, whose source code is excluded
- \* from the Corresponding Source as a System Library, need not be
- \* included in conveying the object code work.
- \*
- \* A "User Product" is either (1) a "consumer product", which means any
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- \* or household purposes, or (2) anything designed or sold for incorporation
- \* into a dwelling. In determining whether a product is a consumer product,
- \* doubtful cases shall be resolved in favor of coverage. For a particular
- \* product received by a particular user, "normally used" refers to a
- \* typical or common use of that class of product, regardless of the status
- \* of the particular user or of the way in which the particular user
- \* actually uses, or expects or is expected to use, the product. A product
- \* is a consumer product regardless of whether the product has substantial
- \* commercial, industrial or non-consumer uses, unless such uses represent
- \* the only significant mode of use of the product.
- \*
- \* "Installation Information" for a User Product means any methods,
- \* procedures, authorization keys, or other information required to install
- \* and execute modified versions of a covered work in that User Product from
- \* a modified version of its Corresponding Source. The information must
- \* suffice to ensure that the continued functioning of the modified object
- \* code is in no case prevented or interfered with solely because
- \* modification has been made.
- \*
- \* If you convey an object code work under this section in, or with, or
- \* specifically for use in, a User Product, and the conveying occurs as
- \* part of a transaction in which the right of possession and use of the
- \* User Product is transferred to the recipient in perpetuity or for a
- \* fixed term (regardless of how the transaction is characterized), the
- \* Corresponding Source conveyed under this section must be accompanied
- \* by the Installation Information. But this requirement does not apply
- \* if neither you nor any third party retains the ability to install
- \* modified object code on the User Product (for example, the work has
- \* been installed in ROM).
- \*
- \* The requirement to provide Installation Information does not include a
- \* requirement to continue to provide support service, warranty, or updates
- \* for a work that has been modified or installed by the recipient, or for
- \* the User Product in which it has been modified or installed. Access to a
- \* network may be denied when the modification itself materially and
- \* adversely affects the operation of the network or violates the rules and
- \* protocols for communication across the network.
- \*

\* Corresponding Source conveyed, and Installation Information provided,  
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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 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.

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#!/bin/sh

# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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#

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set -u

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```
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```

```
# install - install a program, script, or datafile
```

```
scriptversion=2011-11-20.07; # UTC
```

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## 1.43 dosfstools 3.0.28

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```
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## 1.44 e2fsprogs 1.42.9

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```

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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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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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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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# 1.45 ecj 4.4.2

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body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
    }
p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
    }
p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
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</style>

</head>

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```
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```
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mgo - MongoDB driver for Go

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BSON library for Go

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mgo - MongoDB driver for Go

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Upstream-Name: Packetbeat

Upstream-Contact: Monica Sarbu <[monica@packetbeat.com](mailto:monica@packetbeat.com)>

Source: <https://github.com/packetbeat/packetbeat>

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Upstream-Contact: Monica Sarbu <[monica@packetbeat.com](mailto:monica@packetbeat.com)>

Source: <https://github.com/packetbeat/packetbeat>

Files: \*

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src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

```
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftandom/ftandom.c
#
# EOF
```

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Version 3, 29 June 2007

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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

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

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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

```
<one line to give the library's name and a brief idea of what it does.>  
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```

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

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

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

That's all there is to it!

## 1.54 gdbm 1.11

### 1.54.1 Available under license :

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Version 3, 29 June 2007

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

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

## TERMS AND CONDITIONS

### 0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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#### 1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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## 1.55 gettext 0.19.4

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```

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```
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## 1.56 glib-2.0 2.44.1

### 1.56.1 Available under license :

```
/* GMODULE - GLIB wrapper code for dynamic module loading  
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*  
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```

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/\*

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\* files for a list of changes. These files are distributed with

\* GLib at <ftp://ftp.gtk.org/pub/gtk/>.

\*/

#ifndef \_\_GMODULE\_H\_\_

#define \_\_GMODULE\_H\_\_

#include <glib.h>

G\_BEGIN\_DECLS

/\* exporting and importing functions, this is special cased

\* to feature Windows dll stubs.

\*/

#define G\_MODULE\_IMPORT extern

#ifdef G\_PLATFORM\_WIN32

# define G\_MODULE\_EXPORT \_\_declspec(dllexport)

#else /\* !G\_PLATFORM\_WIN32 \*/

# define G\_MODULE\_EXPORT

#endif /\* !G\_PLATFORM\_WIN32 \*/

typedef enum

{

G\_MODULE\_BIND\_LAZY = 1 << 0,

G\_MODULE\_BIND\_LOCAL = 1 << 1,

G\_MODULE\_BIND\_MASK = 0x03

} GModuleFlags;

typedef struct \_GModule GModule;

typedef const gchar\* (\*GModuleCheckInit) (GModule \*module);

typedef void (\*GModuleUnload) (GModule \*module);

/\* return TRUE if dynamic module loading is supported \*/

GLIB\_AVAILABLE\_IN\_ALL

gboolean g\_module\_supported (void) G\_GNUC\_CONST;

/\* open a module 'file\_name' and return handle, which is NULL on error \*/

GLIB\_AVAILABLE\_IN\_ALL

GModule\* g\_module\_open (const gchar \*file\_name,  
GModuleFlags flags);

/\* close a previously opened module, returns TRUE on success \*/

```

GLIB_AVAILABLE_IN_ALL
gboolean      g_module_close      (GModule   *module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void          g_module_make_resident (GModule   *module);

/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar *  g_module_error      (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean      g_module_symbol      (GModule   *module,
                                     const gchar *symbol_name,
                                     gpointer    *symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *  g_module_name        (GModule   *module);

/* Build the actual file name containing a module. 'directory' is the
 * directory where the module file is supposed to be, or NULL or empty
 * in which case it should either be in the current directory or, on
 * some operating systems, in some standard place, for instance on the
 * PATH. Hence, to be absolutely sure to get the correct module,
 * always pass in a directory. The file name consists of the directory,
 * if supplied, and 'module_name' suitably decorated according to
 * the operating system's conventions (for instance lib*.so or *.dll).
 *
 * No checks are made that the file exists, or is of correct type.
 */
GLIB_AVAILABLE_IN_ALL
gchar*         g_module_build_path  (const gchar *directory,
                                     const gchar *module_name);

#ifdef __GTK_DOC_IGNORE__
#ifdef G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule *      g_module_open_utf8 (const gchar *file_name,
                                    GModuleFlags flags);

GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule   *module);
#endif
#endif

```



```
#endif
```

```
G_END_DECLS
```

```
#endif /* __GMODULE_H__ */
```

```
/******
```

```
* Perl-Compatible Regular Expressions *
```

```
*****/
```

```
/* This is the public header file for the PCRE library, to be #included by applications that call the PCRE functions.
```

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-----  
\*/

```
#ifndef _PCRE_H
```

```
#define _PCRE_H
```

```
/* The current PCRE version information. */
```

```

#define PCRE_MAJOR      8
#define PCRE_MINOR     31
#define PCRE_PRERELEASE
#define PCRE_DATE       2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
# ifndef PCRE_EXP_DECL
#  define PCRE_EXP_DECL extern __declspec(dllimport)
# endif
# ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern __declspec(dllimport)
#  endif
#  ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN __declspec(dllimport)
#  endif
# endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
# ifdef __cplusplus
#  define PCRE_EXP_DECL extern "C"
# else
#  define PCRE_EXP_DECL extern
# endif
#endif

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#  define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#  define PCRECPP_EXP_DEFN
# endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

```

```
/* Allow for C++ users */
```

```
#ifdef __cplusplus  
extern "C" {  
#endif
```

/\* Options. Some are compile-time only, some are run-time only, and some are both, so we keep them all distinct. However, almost all the bits in the options word are now used. In the long run, we may have to re-use some of the compile-time only bits for runtime options, or vice versa. In the comments below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). \*/

```
#define PCRE_CASELESS      0x00000001 /* Compile */  
#define PCRE_MULTILINE    0x00000002 /* Compile */  
#define PCRE_DOTALL       0x00000004 /* Compile */  
#define PCRE_EXTENDED     0x00000008 /* Compile */  
#define PCRE_ANCHORED     0x00000010 /* Compile, exec, DFA exec */  
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */  
#define PCRE_EXTRA        0x00000040 /* Compile */  
#define PCRE_NOTBOL       0x00000080 /* Exec, DFA exec */  
#define PCRE_NOTEOL       0x00000100 /* Exec, DFA exec */  
#define PCRE_UNGREEDY     0x00000200 /* Compile */  
#define PCRE_NOTEMPTY     0x00000400 /* Exec, DFA exec */  
/* The next two are also used in exec and DFA exec */  
#define PCRE_UTF8         0x00000800 /* Compile (same as PCRE_UTF16) */  
#define PCRE_UTF16        0x00000800 /* Compile (same as PCRE_UTF8) */  
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */  
/* The next two are also used in exec and DFA exec */  
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */  
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */  
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */  
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */  
#define PCRE_PARTIAL      0x00008000 /* Backwards compatible synonym */  
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */  
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */  
#define PCRE_FIRSTLINE    0x00040000 /* Compile, used in exec, DFA exec */  
#define PCRE_DUPNAMES     0x00080000 /* Compile */  
#define PCRE_NEWLINE_CR   0x00100000 /* Compile, exec, DFA exec */  
#define PCRE_NEWLINE_LF   0x00200000 /* Compile, exec, DFA exec */  
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */  
#define PCRE_NEWLINE_ANY  0x00400000 /* Compile, exec, DFA exec */  
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */  
#define PCRE_BSR_ANYCRLF  0x00800000 /* Compile, exec, DFA exec */  
#define PCRE_BSR_UNICODE  0x01000000 /* Compile, exec, DFA exec */
```

```

#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP 0x20000000 /* Compile, used in exec, DFA exec */

```

```

/* Exec-time and get/set-time error codes */

```

```

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

```

/* Specific error codes for UTF-8 validity checks */

```

```

#define PCRE_UTF8_ERR0 0
#define PCRE_UTF8_ERR1 1

```

```
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13
#define PCRE_UTF8_ERR14     14
#define PCRE_UTF8_ERR15     15
#define PCRE_UTF8_ERR16     16
#define PCRE_UTF8_ERR17     17
#define PCRE_UTF8_ERR18     18
#define PCRE_UTF8_ERR19     19
#define PCRE_UTF8_ERR20     20
#define PCRE_UTF8_ERR21     21
```

```
/* Specific error codes for UTF-16 validity checks */
```

```
#define PCRE_UTF16_ERR0     0
#define PCRE_UTF16_ERR1     1
#define PCRE_UTF16_ERR2     2
#define PCRE_UTF16_ERR3     3
#define PCRE_UTF16_ERR4     4
```

```
/* Request types for pcre_fullinfo() */
```

```
#define PCRE_INFO_OPTIONS    0
#define PCRE_INFO_SIZE      1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX    3
#define PCRE_INFO_FIRSTBYTE     4
#define PCRE_INFO_FIRSTCHAR     4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE     5
#define PCRE_INFO_LASTLITERAL   6
#define PCRE_INFO_NAMEENTRYSIZE 7
#define PCRE_INFO_NAMECOUNT    8
#define PCRE_INFO_NAMETABLE     9
#define PCRE_INFO_STUDYSIZE    10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL    12
#define PCRE_INFO_JCHANGED     13
#define PCRE_INFO_HASCORRLF    14
#define PCRE_INFO_MINLENGTH    15
```

```

#define PCRE_INFO_JIT          16
#define PCRE_INFO_JITSIZE     17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8          0
#define PCRE_CONFIG_NEWLINE     1
#define PCRE_CONFIG_LINK_SIZE   2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR         8
#define PCRE_CONFIG_JIT         9
#define PCRE_CONFIG_UTF16       10
#define PCRE_CONFIG_JITTARGET   11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE      0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA      0x0001
#define PCRE_EXTRA_MATCH_LIMIT     0x0002
#define PCRE_EXTRA_CALLOUT_DATA    0x0004
#define PCRE_EXTRA_TABLES          0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK            0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT  0x0040

/* Types */

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;       /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

```

```

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags; /* Bits for which fields are set */
  void *study_data; /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data; /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  unsigned char **mark; /* For passing back a mark pointer */
  void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
  unsigned long int flags; /* Bits for which fields are set */
  void *study_data; /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data; /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
} pcre16_extra;

```

```

void *executable_jit;      /* Contains a pointer to a compiled jit code */
} pcre16_extra;

```

/\* The structure for passing out data via the pcre\_callout\_function. We use a structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. \*/

```

typedef struct pcre_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number;  /* Number compiled into pattern */
int    *offset_vector;  /* The offset vector */
PCRE_SPTR  subject;     /* The subject being matched */
int    subject_length;  /* The length of the subject */
int    start_match;     /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;     /* Max current capture */
int    capture_last;    /* Most recently closed capture */
void   *callout_data;   /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

```

/\* Same structure as above, but with 16 bit char pointers. \*/

```

typedef struct pcre16_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number;  /* Number compiled into pattern */
int    *offset_vector;  /* The offset vector */
PCRE_SPTR16  subject;   /* The subject being matched */
int    subject_length;  /* The length of the subject */
int    start_match;     /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;     /* Max current capture */
int    capture_last;    /* Most recently closed capture */
void   *callout_data;   /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

```



```

} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void>(*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void>(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void>(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void>(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack>(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack>(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,

```

```

    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);

```

```

PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */
PCRE LICENCE

```

Please see the file LICENCE in the PCRE distribution for licensing details.

End

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## 1.57 glibc 2.22

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```
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```

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

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

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## 1.61 gnutls 3.3.17.1

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## 1.62 grep 2.21

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Specification: JSR-000220 Enterprise JavaBeans v.3.0 ("Specification")

Version: 3.0

Status: Final Release

Release: 8 May 2006

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## 1.69 ha-api 3.1.9

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\*\*\*\*\*  
\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/Xrandr.h

/\*

\* \$XFree86: xc/lib/Xrandr/Xrandr.h,v 1.9 2002/09/29 23:39:44 keithp Exp \$

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\*/

END src/solaris/native/sun/awt/Xrandr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/extutil.h

/\*

\* \$Xorg: extutil.h,v 1.3 2000/08/18 04:05:45 coskrey Exp \$

\*

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\* Xlib Extension-Writing Utilities

\*

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\*/

/\* \$XFree86: xc/include/extensions/extutil.h,v 1.5 2001/01/17 17:53:20 dawes Exp \$ \*/

END src/solaris/native/sun/awt/extutil.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/fontconfig.h

/\*

\* \$RCSId: xc/lib/fontconfig/fontconfig/fontconfig.h,v 1.30 2002/09/26 00:17:27

keithp Exp \$

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\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/list.c  
AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

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AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/randr.h

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END src/solaris/native/sun/awt/andr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/java2d/opengl/J2D\_GL/glx.h

\* Mesa 3-D graphics library  
\* Version: 4.1  
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/\*

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```
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```

From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
 Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

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From strings/apr\_snprintf.c:

- \*
- \* cvt - IEEE floating point formatting routines.
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As part of a commercial research project, the developers at Insight Distributions System overhauled the driver. Their goal was to make the driver commercially viable. In keeping with the spirit with which the original source was acquired, Insight published their work for the public. Some time later and after some discussion with members of the PostgreSQL organization, psqLODBC was adapted as the part of the PostgreSQL source distribution. The driver continued to be maintained by Byron Nikolaidis, the developer at Insight who overhauled the driver for some time.

The PostgreSQL project took over maintenance of the driver at this point, and continue to maintain it as "psqLODBC". Peter Eisentraut provided a UNIX/C build system to make the project independent of the main PostgreSQL baseline. I, Blaine Simpson, branched the psqlodbc code for HyperSQL in early 2009. Our branch "is" the HyperSQL ODBC Driver. In conclusion, the HyperSQL ODBC Driver, hsqlodbc, is a branch off of psqLODBC (PostgreSQL's ODBC driver), and the two are significantly different, as they support database servers which are significantly different.

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

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

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END src/solaris/native/sun/awt/HPkeysym.h

\*\*\*\*\*  
\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/Xrandr.h

/\*

\* \$XFree86: xc/lib/Xrandr/Xrandr.h,v 1.9 2002/09/29 23:39:44 keithp Exp \$

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\* Author: Jim Gettys, HP Labs, HP.

\*/

END src/solaris/native/sun/awt/Xrandr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/extutil.h

/\*

\* \$Xorg: extutil.h,v 1.3 2000/08/18 04:05:45 coskrey Exp \$

\*

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\*

\* Xlib Extension-Writing Utilities

\*

\* This package contains utilities for writing the client API for various

\* protocol extensions. THESE INTERFACES ARE NOT PART OF THE X STANDARD AND

\* ARE SUBJECT TO CHANGE!

\*/

/\* \$XFree86: xc/include/extensions/extutil.h,v 1.5 2001/01/17 17:53:20 dawes Exp \$ \*/

END src/solaris/native/sun/awt/extutil.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/fontconfig.h

/\*

\* \$RCSId: xc/lib/fontconfig/fontconfig/fontconfig.h,v 1.30 2002/09/26 00:17:27

keithp Exp \$

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\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/list.c

AND src/solaris/native/sun/awt/list.h

AND src/solaris/native/sun/awt/multiVis.c

AND src/solaris/native/sun/awt/multiVis.h

AND src/solaris/native/sun/awt/wsutils.h

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AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/andr.h

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END src/solaris/native/sun/awt/andr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/java2d/opengl/J2D\_GL/glx.h

\* Mesa 3-D graphics library

\* Version: 4.1

\*

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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```
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END src/solaris/native/sun/awt/HPkeysym.h

\*\*\*\*\*  
\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/Xrandr.h

/\*

\* \$XFree86: xc/lib/Xrandr/Xrandr.h,v 1.9 2002/09/29 23:39:44 keithp Exp \$

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 \*  
 \* Author: Jim Gettys, HP Labs, HP.  
 \*/

END src/solaris/native/sun/awt/Xrandr.h  
 \*\*\*\*\*

BEGIN src/solaris/native/sun/awt/extutil.h  
 /\*  
 \* \$Xorg: extutil.h,v 1.3 2000/08/18 04:05:45 coskrey Exp \$  
 \*

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```
*
* Author: Jim Fulton, MIT The Open Group
*
* Xlib Extension-Writing Utilities
*
* This package contains utilities for writing the client API for various
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* ARE SUBJECT TO CHANGE!
*/
/* $XFree86: xc/include/extensions/extutil.h,v 1.5 2001/01/17 17:53:20 dawes Exp $ */
```

```
END src/solaris/native/sun/awt/extutil.h
*****
```

```
BEGIN src/solaris/native/sun/awt/fontconfig.h
/*
* $RCSId: xc/lib/fontconfig/fontconfig/fontconfig.h,v 1.30 2002/09/26 00:17:27
keithp Exp $
```

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```

```
END src/solaris/native/sun/awt/fontconfig.h
*****
```

```
BEGIN src/solaris/native/sun/awt/list.c
AND src/solaris/native/sun/awt/list.h
AND src/solaris/native/sun/awt/multiVis.c
AND src/solaris/native/sun/awt/multiVis.h
AND src/solaris/native/sun/awt/wsutils.h
```

```
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END src/solaris/native/sun/awt/list.c  
AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/andr.h

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\* Author: Jim Gettys, HP Labs, Hewlett-Packard, Inc.

END src/solaris/native/sun/awt/andr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/java2d/opengl/J2D\_GL/glx.h

\* Mesa 3-D graphics library

\* Version: 4.1

\*

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END src/solaris/native/sun/java2d/opengl/J2D\_GL/glx.h

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From strings/apr\_sprintf.c:

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END src/solaris/native/sun/awt/HPkeysym.h

\*\*\*\*\*  
\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/Xrandr.h

/\*

\* \$XFree86: xc/lib/Xrandr/Xrandr.h,v 1.9 2002/09/29 23:39:44 keithp Exp \$

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\*/

END src/solaris/native/sun/awt/Xrandr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/extutil.h

/\*

\* \$Xorg: extutil.h,v 1.3 2000/08/18 04:05:45 coskrey Exp \$

\*

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\* Xlib Extension-Writing Utilities

\*

\* This package contains utilities for writing the client API for various

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\*/

/\* \$XFree86: xc/include/extensions/extutil.h,v 1.5 2001/01/17 17:53:20 dawes Exp \$ \*/

END src/solaris/native/sun/awt/extutil.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/fontconfig.h

/\*

\* \$RCSId: xc/lib/fontconfig/fontconfig/fontconfig.h,v 1.30 2002/09/26 00:17:27

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\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/list.c  
AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

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AND src/solaris/native/sun/awt/list.h  
AND src/solaris/native/sun/awt/multiVis.c  
AND src/solaris/native/sun/awt/multiVis.h  
AND src/solaris/native/sun/awt/wsutils.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/awt/andr.h

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\* Author: Jim Gettys, HP Labs, Hewlett-Packard, Inc.

END src/solaris/native/sun/awt/andr.h

\*\*\*\*\*

BEGIN src/solaris/native/sun/java2d/opengl/J2D\_GL/glx.h

\* Mesa 3-D graphics library  
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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From strings/apr\_sprintf.c:

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```

```
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## 1.80 iputils s20121221



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 * tracepath.c
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 *
 * Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
 */
```

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/socket.h>
#include <linux/types.h>
#include <linux/errqueue.h>
#include <errno.h>
#include <string.h>
#include <netdb.h>
#include <netinet/in.h>
#include <resolv.h>
#include <sys/time.h>
#include <sys/uio.h>
#include <arpa/inet.h>
#ifdef USE_IDN
#include <idna.h>
#include <locale.h>
#endif

#ifndef IP_PMTUDISC_PROBE
#define IP_PMTUDISC_PROBE 3
#endif

struct hhistory
{
    int hops;
    struct timeval sendtime;
};

struct hhistory his[64];
int hisptr;

struct sockaddr_in target;
__u16 base_port;
```

```

const int overhead = 28;
int mtu = 65535;
void *pktbuf;
int hops_to = -1;
int hops_from = -1;
int no_resolve = 0;
int show_both = 0;

#define HOST_COLUMN_SIZE 52

struct probehdr
{
    __u32 ttl;
    struct timeval tv;
};

void data_wait(int fd)
{
    fd_set fds;
    struct timeval tv;
    FD_ZERO(&fds);
    FD_SET(fd, &fds);
    tv.tv_sec = 1;
    tv.tv_usec = 0;
    select(fd+1, &fds, NULL, NULL, &tv);
}

void print_host(const char *a, const char *b, int both)
{
    int plen = 0;
    printf("%s", a);
    plen = strlen(a);
    if (both) {
        printf(" (%s)", b);
        plen += strlen(b) + 3;
    }
    if (plen >= HOST_COLUMN_SIZE)
        plen = HOST_COLUMN_SIZE - 1;
    printf("%*s", HOST_COLUMN_SIZE - plen, "");
}

int recverr(int fd, int ttl)
{
    int res;
    struct probehdr rcvbuf;
    char cbuf[512];
    struct iovec iov;
    struct msghdr msg;

```

```

struct cmsghdr *cmsg;
struct sock_extended_err *e;
struct sockaddr_in addr;
struct timeval tv;
struct timeval *rettv;
int slot;
int rethops;
int sndhops;
int progress = -1;
int broken_router;

restart:
memset(&rcvbuf, -1, sizeof(rcvbuf));
iov.iov_base = &rcvbuf;
iov.iov_len = sizeof(rcvbuf);
msg.msg_name = (__u8*)&addr;
msg.msg_namelen = sizeof(addr);
msg.msg_iov = &iov;
msg.msg_iovlen = 1;
msg.msg_flags = 0;
msg.msg_control = cbuf;
msg.msg_controllen = sizeof(cbuf);

gettimeofday(&tv, NULL);
res = recvmsg(fd, &msg, MSG_ERRQUEUE);
if (res < 0) {
    if (errno == EAGAIN)
        return progress;
    goto restart;
}

progress = mtu;

rethops = -1;
sndhops = -1;
e = NULL;
rettv = NULL;
slot = ntohs(addr.sin_port) - base_port;
if (slot >= 0 && slot < 63 && his[slot].hops) {
    sndhops = his[slot].hops;
    rettv = &his[slot].sendtime;
    his[slot].hops = 0;
}
broken_router = 0;
if (res == sizeof(rcvbuf)) {
    if (rcvbuf.ttl == 0 || rcvbuf.tv.tv_sec == 0) {
        broken_router = 1;
    } else {

```

```

    sndhops = rcvbuf.ttl;
    rettv = &rcvbuf.tv;
}
}

for (cmsg = CMSG_FIRSTHDR(&msg); cmsg; cmsg = CMSG_NXTHDR(&msg, cmsg)) {
    if (cmsg->cmsg_level == SOL_IP) {
        if (cmsg->cmsg_type == IP_RECVERR) {
            e = (struct sock_extended_err *) CMSG_DATA(cmsg);
        } else if (cmsg->cmsg_type == IP_TTL) {
            memcpy(&rethops, CMSG_DATA(cmsg), sizeof(rethops));
        } else {
            printf("cmsg:%d\n ", cmsg->cmsg_type);
        }
    }
}
if (e == NULL) {
    printf("no info\n");
    return 0;
}
if (e->ee_origin == SO_EE_ORIGIN_LOCAL) {
    printf("%2d?: %*s ", ttl, -(HOST_COLUMN_SIZE - 1), "[LOCALHOST]");
} else if (e->ee_origin == SO_EE_ORIGIN_ICMP) {
    char abuf[128];
    struct sockaddr_in *sin = (struct sockaddr_in*)(e+1);
    struct hostent *h = NULL;
    char *idn = NULL;

    inet_ntop(AF_INET, &sin->sin_addr, abuf, sizeof(abuf));

    if (sndhops>0)
        printf("%2d: ", sndhops);
    else
        printf("%2d?: ", ttl);

    if (!no_resolve || show_both) {
        fflush(stdout);
        h = gethostbyaddr((char *) &sin->sin_addr, sizeof(sin->sin_addr), AF_INET);
    }

#ifdef USE_IDN
    if (h && idna_to_unicode_lzlz(h->h_name, &idn, 0) != IDNA_SUCCESS)
        idn = NULL;
#endif
    if (no_resolve)
        print_host(abuf, h ? (idn ? idn : h->h_name) : abuf, show_both);
    else
        print_host(h ? (idn ? idn : h->h_name) : abuf, abuf, show_both);
}

```

```

#ifdef USE_IDN
    free(idn);
#endif
}

if (rettv) {
    int diff = (tv.tv_sec-rettv->tv_sec)*1000000+(tv.tv_usec-rettv->tv_usec);
    printf("%3d.%03dms ", diff/1000, diff%1000);
    if (broken_router)
        printf("(This broken router returned corrupted payload) ");
}

switch (e->ee_errno) {
case ETIMEDOUT:
    printf("\n");
    break;
case EMSGSIZE:
    printf("pmtu %d\n", e->ee_info);
    mtu = e->ee_info;
    progress = mtu;
    break;
case ECONNREFUSED:
    printf("reached\n");
    hops_to = sndhops<0 ? ttl : sndhops;
    hops_from = rethops;
    return 0;
case EPROTO:
    printf("!P\n");
    return 0;
case EHOSTUNREACH:
    if (e->ee_origin == SO_EE_ORIGIN_ICMP &&
        e->ee_type == 11 &&
        e->ee_code == 0) {
        if (rethops>=0) {
            if (rethops<=64)
                rethops = 65-rethops;
            else if (rethops<=128)
                rethops = 129-rethops;
            else
                rethops = 256-rethops;
            if (sndhops>=0 && rethops != sndhops)
                printf("asymm %2d ", rethops);
            else if (sndhops<0 && rethops != ttl)
                printf("asymm %2d ", rethops);
        }
        printf("\n");
        break;
}

```

```

    }
    printf("!H\n");
    return 0;
case ENETUNREACH:
    printf("!N\n");
    return 0;
case EACCES:
    printf("!A\n");
    return 0;
default:
    printf("\n");
    errno = e->ee_errno;
    perror("NET ERROR");
    return 0;
}
goto restart;
}

int probe_ttl(int fd, int ttl)
{
    int i;
    struct probehdr *hdr = pktbuf;

    memset(pktbuf, 0, mtu);
restart:
    for (i=0; i<10; i++) {
        int res;

        hdr->ttl = ttl;
        target.sin_port = htons(base_port + hisptr);
        gettimeofday(&hdr->tv, NULL);
        his[hisptr].hops = ttl;
        his[hisptr].sendtime = hdr->tv;
        if (sendto(fd, pktbuf, mtu-overhead, 0, (struct sockaddr*)&target, sizeof(target)) > 0)
            break;
        res = recvrr(fd, ttl);
        his[hisptr].hops = 0;
        if (res==0)
            return 0;
        if (res > 0)
            goto restart;
    }
    hisptr = (hisptr + 1)&63;

    if (i<10) {
        data_wait(fd);
        if (recv(fd, pktbuf, mtu, MSG_DONTWAIT) > 0) {
            printf("%2d?: reply received 8)\n", ttl);

```

```

    return 0;
}
return recvrr(fd, ttl);
}

printf("%2d: send failed\n", ttl);
return 0;
}

static void usage(void) __attribute__((noreturn));

static void usage(void)
{
    fprintf(stderr, "Usage: tracepath [-n] [-b] [-l <len>] [-p port] <destination>\n");
    exit(-1);
}

int
main(int argc, char **argv)
{
    struct hostent *he;
    int fd;
    int on;
    int ttl;
    char *p;
    int ch;
#ifdef USE_IDN
    int rc;
    setlocale(LC_ALL, "");
#endif

    while ((ch = getopt(argc, argv, "nbh?!:p:")) != EOF) {
        switch(ch) {
            case 'n':
                no_resolve = 1;
                break;
            case 'b':
                show_both = 1;
                break;
            case 'l':
                if ((mtu = atoi(optarg)) <= overhead) {
                    fprintf(stderr, "Error: pktlen must be > %d and <= %d.\n",
                        overhead, INT_MAX);
                    exit(1);
                }
                break;
            case 'p':
                base_port = atoi(optarg);

```

```

    break;
default:
    usage();
}
}

argc -= optind;
argv += optind;

if (argc != 1)
    usage();

fd = socket(AF_INET, SOCK_DGRAM, 0);
if (fd < 0) {
    perror("socket");
    exit(1);
}
target.sin_family = AF_INET;

/* Backward compatibility */
if (!base_port) {
    p = strchr(argv[0], '/');
    if (p) {
        *p = 0;
        base_port = atoi(p+1);
    } else
        base_port = 44444;
}

p = argv[0];
#ifdef USE_IDN
rc = idna_to_ascii_lz(argv[0], &p, 0);
if (rc != IDNA_SUCCESS) {
    fprintf(stderr, "IDNA encoding failed: %s\n", idna_strerror(rc));
    exit(2);
}
#endif

he = gethostbyname2(argv[0], AF_INET);
if (he == NULL) {
    perror("gethostbyname2");
    exit(1);
}

#ifdef USE_IDN
free(p);
#endif

```



```

memcpy(&target.sin_addr, he->h_addr, 4);

on = IP_PMTUDISC_PROBE;
if (setsockopt(fd, SOL_IP, IP_MTU_DISCOVER, &on, sizeof(on)) &&
    (on = IP_PMTUDISC_DO,
     setsockopt(fd, SOL_IP, IP_MTU_DISCOVER, &on, sizeof(on)))) {
    perror("IP_MTU_DISCOVER");
    exit(1);
}
on = 1;
if (setsockopt(fd, SOL_IP, IP_RECVERR, &on, sizeof(on)) {
    perror("IP_RECVERR");
    exit(1);
}
if (setsockopt(fd, SOL_IP, IP_RECVTTL, &on, sizeof(on)) {
    perror("IP_RECVTTL");
    exit(1);
}

pktbuf = malloc(mtu);
if (!pktbuf) {
    perror("malloc");
    exit(1);
}

for (ttl=1; ttl<32; ttl++) {
    int res;
    int i;

    on = ttl;
    if (setsockopt(fd, SOL_IP, IP_TTL, &on, sizeof(on)) {
        perror("IP_TTL");
        exit(1);
    }

restart:
    for (i=0; i<3; i++) {
        int old_mtu;

        old_mtu = mtu;
        res = probe_ttl(fd, ttl);
        if (mtu != old_mtu)
            goto restart;
        if (res == 0)
            goto done;
        if (res > 0)
            break;
    }
}

```

```

if (res < 0)
    printf("%2d: no reply\n", ttl);
}
printf("    Too many hops: pmtu %d\n", mtu);
done:
printf("    Resume: pmtu %d ", mtu);
if (hops_to>=0)
    printf("hops %d ", hops_to);
if (hops_from>=0)
    printf("back %d ", hops_from);
printf("\n");
exit(0);
}

```

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```

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```

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

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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

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<signature of Ty Coon>, 1 April 1989  
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# 1.90 java-1.7.0-openjdk\_AGPLv3 1.7.0.131 :2.6.9.0.el6\_8

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```

```
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```
*/
```

```
/* TestCryptoLevel -- Ensure unlimited crypto policy is in use.
```

```
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```

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```
*/
```

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Version 3, 29 June 2007

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## 1.93 java-support 7.1.0

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## 1.94 JavaMail API 1.4.2

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E-Mail: [jstrachan@apache.org](mailto:jstrachan@apache.org)  
Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfD3lj4OM6sIMfJfTOdYdT1bxwCdGgWv  
8sfMxEDZquIqhVbfZU2c76U=  
=8WW7

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Full name: Julian Anthony Fox Gosnell  
E-Mail: `jules@coredevelopers.net`  
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Date: 10th March 2006

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Version: GnuPG v1.4.2.1 (GNU/Linux)

iD8DBQFEebh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLeQxsMPACdEhnE  
I/stizRWWZZkeLbcglzdQCE=  
=piHm

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E-Mail: `ngonzalez@exist.com`

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji  
6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy

LBDVaad1bJ1v1EHY901kPcg=

=6rqm

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Date: 2012-07-17

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Version: GnuPG v1.4.10 (GNU/Linux)

```
iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
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FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWY23ZQ8BKQRLKOZTw=
=gAqN
```

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Version: GnuPG v1.4.1 (Darwin)

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

javax.servlet:javax.servlet-api  
javax.servlet.jsp:javax.servlet.jsp-api  
org.glassfish.web:javax.servlet.jsp  
org.glassfish.web:javax.servlet.jsp  
org.glassfish.web:javax.servlet.jsp.jstl  
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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Full name: Jesse C. McConnell  
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iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjIJACgrvjM  
C/W/GuQFfCJJykkL2jd9/Ag=  
=ufUh

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Version: GnuPG v1.4.10 (GNU/Linux)

```
iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
RUkfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQquZXfXIeEghz+tKriK3
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YLAJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSIAVj1u2OjZBfqLaJ3FA60Ti+I3kn
FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWY23ZQ8BKQRLKOZTw=
=gAqN
```

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Version: GnuPG v1.4.2.1 (GNU/Linux)

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I/stizRWWZZkeLbcglzdQCE=  
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Full name: Jan Bartel  
E-Mail: `janb@eclipse.com`  
Mailing Address: 62 Church St Balmain NSW 2041 Australia

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Corporation name: Simula Labs, Inc.  
Mailing Address: 4676 Admiralty Way, Suite 520  
Marina Del Rey, CA 90292

Point of Contact:  
Full name: Gordon King  
E-Mail: `gordon.king@simulalabs.com`  
Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006
_____	_____
_____	_____

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Name:

Positions:



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Name	Date added

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Full name: Simone Bordet  
E-Mail: `simone.bordet@gmail.com`  
Mailing Address:

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8sfMxEDZquIqhVbfZU2c76U=  
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E-Mail: ngonzalez@exist.com

Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)

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6etDJ6AUj0jTuS159hUsWMQ=

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Full name: Gregory John Wilkins

E-Mail: gregw@eclipse.com

Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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5hdry6ZjXRcUhQEyNz2F/T4=  
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Date: 27 June 2008

Please sign: David Jencks

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Version: GnuPG v1.4.7 (Darwin)

iD8DBQFIZT2ToF6+5lbz4BsRAs3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O  
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=jC7I

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-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

Jetty Project

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Please read this document carefully before signing and keep a copy for your records.

Full name: Timothy Philip Venum

E-Mail: [tim@adjective.org](mailto:tim@adjective.org)

Mailing Address: 7/9-11 Cook St, Sutherland, NSW 2232, Australia

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Date:

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFEnjfA9nwd0ZUd8/ERArwdAJ4lzyXEi4zSIIiJwEAxknGPhzMRswCfRsdI  
RUIoI0BYmYpaETSqxt2oLFU=  
=Tr57  
-----END PGP SIGNATURE-----

# 1.104 jetty-schemas 3.1.M0

## 1.104.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="author" content="ayao"/>
  <meta name="keywords" content="Jetty, Servlets, Async, Web Server, Web Client, Mailing Lists, Eclipse RT,
Eclipse Runtime"/>
  <link href="//fonts.googleapis.com/css?family=Open+Sans:400,700,300,600,100" rel="stylesheet"
type="text/css"/>
  <link rel="shortcut icon" href="/eclipse.org-common/themes/solstice/public/images/favicon.ico"/>
  <title>Licenses</title>
  <link rel="stylesheet" href="/eclipse.org-common/themes/solstice/public/stylesheets/styles.min.css"/>
  <meta property="og:description" content="Jetty is a highly scalable modular servlet engine and http server that
natively supports many modern protocols like SPDY and WebSockets." />

  <meta property="og:image" content="http://www.eclipse.org/jetty/images/jetty-logo-80x22.png" />

  <meta property="og:title" content="Licenses" />

  <link rel="stylesheet" type="text/css" href="/jetty/css/jetty.css"/>

</head>
<body id="body_solstice">
  <a class="sr-only" href="#content">Skip to main content</a>
  <div class="clearfix toolbar-container-wrapper">
    <div class="container">
      <div class="text-right toolbar-row row hidden-print">
        <div class="col-md-24 row-toolbar-col">
          <ul class="list-inline">
            <li><a href="https://dev.eclipse.org/site_login/createaccount.php"><i class="fa fa-user fa-fw"></i> Create
```

```

account</a></li>
  <li><a href="https://dev.eclipse.org/site_login/?takemeback=http://www.eclipse.org/jetty/licenses.php"><i
class="fa fa-sign-in fa-fw"></i> Log in</a></li>

  </ul>
</div>
</div>
</div>
</div><header role="banner" id="header-wrapper">
<div class="container">
  <div class="row" id="header-row">
    <div class="hidden-xs col-sm-8 col-md-6 col-lg-5" id="header-left">
      <div class="wrapper-logo-default"><a href="http://www.eclipse.org/"></a></div>
    </div>    <div class="col-sm-10 col-md-8 col-lg-5 hidden-print hidden-xs pull-right" id="header-right">
      <div id="custom-search-form" class="reset-box-sizing">
<script>
(function() {
  var cx = '011805775785170369411:15ipmpflp-0';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
  <div id="btn-call-for-action"><a href="https://www.eclipse.org/donate/" class="btn btn-huge btn-info"><i
class="fa fa-star"></i> Donate</a></div>
</div>  <div class="col-sm-14 col-md-16 col-lg-19 reset" id="main-menu-wrapper">
<div class="navbar yamm" id="main-menu">
  <div id="navbar-collapse-1" class="navbar-collapse collapse">
    <ul class="nav navbar-nav">
      <li class="visible-thin"><a href="http://www.eclipse.org/downloads/"
target="_self">Download</a></li><li><a href="http://www.eclipse.org/users/" target="_self">Getting
Started</a></li><li><a href="http://www.eclipse.org/membership/" target="_self">Members</a></li><li><a
href="http://www.eclipse.org/projects/" target="_self">Projects</a></li>    <li class="dropdown visible-
xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Community <b class="caret"></b></a><ul
class="dropdown-menu"><li><a href="http://marketplace.eclipse.org">Marketplace</a></li><li><a
href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org">Planet
Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a
href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul></li><li class="dropdown visible-xs"><a
href="#" data-toggle="dropdown" class="dropdown-toggle">Participate <b class="caret"></b></a><ul
class="dropdown-menu"><li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li><li><a

```

```

href="http://www.eclipse.org/forums/">Forums</a></li><li><a href="http://www.eclipse.org/mail/">Mailing
Lists</a></li><li><a href="https://wiki.eclipse.org/">Wiki</a></li><li><a
href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a href="http://www.eclipse.org/contribute/">How to
Contribute</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown"
class="dropdown-toggle">Working Groups <b class="caret"></b></a><ul class="dropdown-menu"><li><a
href="http://wiki.eclipse.org/Auto_IWG">Automotive</a></li><li><a href="http://iot.eclipse.org">Internet of
Things</a></li><li><a href="http://locationtech.org">LocationTech</a></li><li><a
href="http://lts.eclipse.org">Long-Term Support</a></li><li><a
href="http://polarsys.org">PolarSys</a></li><li><a href="http://science.eclipse.org">Science</a></li><li><a
href="http://www.openmdm.org">OpenMDM</a></li></ul></li>      <!-- More -->
<li class="dropdown eclipse-more hidden-xs">
  <a data-toggle="dropdown" class="dropdown-toggle">More<b class="caret"></b></a>
  <ul class="dropdown-menu">
    <li>
      <!-- Content container to add padding -->
      <div class="yamm-content">
        <div class="row">
          <ul class="col-sm-8 list-unstyled"><li><p><strong>Community</strong></p></li><li><a
href="http://marketplace.eclipse.org">Marketplace</a></li><li><a
href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org/">Planet
Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a
href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul><ul class="col-sm-8 list-
unstyled"><li><p><strong>Participate</strong></p></li><li><a href="https://bugs.eclipse.org/bugs/">Report a
Bug</a></li><li><a href="http://www.eclipse.org/forums/">Forums</a></li><li><a
href="http://www.eclipse.org/mail/">Mailing Lists</a></li><li><a
href="https://wiki.eclipse.org/">Wiki</a></li><li><a href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a
href="http://www.eclipse.org/contribute/">How to Contribute</a></li></ul><ul class="col-sm-8 list-
unstyled"><li><p><strong>Working Groups</strong></p></li><li><a
href="http://wiki.eclipse.org/Auto_IWG">Automotive</a></li><li><a href="http://iot.eclipse.org">Internet of
Things</a></li><li><a href="http://locationtech.org">LocationTech</a></li><li><a
href="http://lts.eclipse.org">Long-Term Support</a></li><li><a
href="http://polarsys.org">PolarSys</a></li><li><a href="http://science.eclipse.org">Science</a></li><li><a
href="http://www.openmdm.org">OpenMDM</a></li></ul>      </div>
    </div>
  </li>
</ul>
</li>
</ul>
</div>
<div class="navbar-header">
  <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse-1">
    <span class="sr-only">Toggle navigation</span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </button>
  <div class="wrapper-logo-mobile"><a class="navbar-brand visible-xs" href="http://www.eclipse.org/"></a></div> </div>
</div>
</div>
</div>
</div>
</header>
<section class="hidden-print default-breadcrumbs" id="breadcrumb">
<div class="container">
<h3 class="sr-only">Breadcrumbs</h3>
<div class="col-xs-24">
<ol class="breadcrumb"><li><a href="http://www.eclipse.org/">Home</a></li><li><a
href="http://www.eclipse.org/projects/">Projects</a></li><li><a
href="http://www.eclipse.org/jetty">jetty</a></li><li class="active">Licenses</li></ol>
</div>

</div>
</section> <!-- /#breadcrumb --><main class="no-promo">
<div class="novaContent container" id="novaContent">
<!-- nav -->
<aside id="leftcol" class="col-md-4">
<ul id="leftnav" class="ul-left-nav fa-ul hidden-print">

<li class="separator">
<a class="separator" href="/jetty/">
Jetty </a>
</li>

<li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/about.php" target="_self">
About Jetty </a>
</li>

<li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/powered" target="_self">
Jetty Powered </a>
</li>

<li>

```

```
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/licenses.php" target="_self">
  Licenses      </a>
</li>
```

```
      <li class="separator">
<a class="separator">
  Resources      </a>
</li>
```

```
    <li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/documentation" target="_self">
  Documentation  </a>
</li>
```

```
    <li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/downloads.php" target="_self">
  Downloads      </a>
</li>
```

```
    <li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/documentation/current/jetty-maven-plugin.html" target="_self">
  Maven Plugin   </a>
</li>
```

```
    <li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="http://marketplace.eclipse.org/search/site/jetty?f[0]=im_taxonomy_vocabulary_3%3A31"
target="_self">
  Eclipse Tooling </a>
</li>
```

```
    <li>
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/jetty/maillinglists.php" target="_self">
```

[Mailing Lists](#)

[JavaDoc](http://download.eclipse.org/jetty/stable-9/apidocs/)

[Source XRef](http://download.eclipse.org/jetty/stable-9/xref/)

[Tools](/jetty/tools.php)

[Blogs](http://webtide.com/blogs)

[Project Management](#)

[Community](/jetty/documentation/current/advanced-contributing.html#community)



```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/jetty/documentation/current/contributing-patches.html" target="_self">
    Contributing    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://www.eclipse.org/projects/project-plan.php?projectid=rt.jetty" target="_self">
    Project Plan    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://www.eclipse.org/projects/ip_log.php?projectid=rt.jetty" target="_self">
    IP Log          </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://github.com/eclipse/jetty.project" target="_self">
    Source          </a>
</li>
```

```
<li class="separator">
  <a class="separator">
    Professional Services    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://marketplace.eclipse.org/search/site/jetty?f[0]=im_taxonomy_vocabulary_3%3A34"
target="_self">
    Training and Consulting    </a>
</li>
```

```
</ul>
</aside>
```

```

<div id="midcolumn">
<p></p>
  <h1>Licenses</h1>
  <p>
    Jetty 9 (as well as 7 and 8) is dual licensed under the <a href="http://www.apache.org/licenses/LICENSE-2.0.html">Apache License 2.0</a> and <a href="http://www.eclipse.org/legal/epl-v10.html">Eclipse Public License 1.0</a>. Jetty is free for commercial use and distribution under the terms of either license, with exceptions listed in the <a href="http://git.eclipse.org/c/jetty/org.eclipse.jetty.project.git/plain/NOTICE.txt">NOTICE</a> file.
  </p>
  <p>
    Jetty 6 was distributed solely under the <a href="http://www.apache.org/licenses/LICENSE-2.0.html">Apache License 2.0</a> with details and exceptions listed in the <a href="http://svn.codehaus.org/jetty/jetty/branches/jetty-6.1/NOTICE.txt">NOTICE</a> file.
  </p>
</div>
<div id="rightcolumn">

<div class="sideitem">
  <h6>Quick Links</h6>
  <ul>
    <li><a href="http://www.eclipse.org/projects/project_summary.php?projectid=rt.jetty">Project Summary</a></li>
    <li><a href="http://www.eclipse.org/jetty/documentation/current">Documentation</a></li>
    <li><a href="http://download.eclipse.org/jetty/stable-9/dist">Download</a> (as .zip or .tar.gz)</li>
    <li><a href="https://github.com/eclipse/jetty.project/issues">Enter Bug</a></li>
    <li><a href="https://github.com/eclipse/jetty.project/issues">Reported Bugs</a></li>
  </ul>
</div>

<div class="sideitem">
  <h6>Active Contributors</h6>
  <div style="position: relative; height: 50px;">
    <a href="http://www.webtide.com/" target="_blank"
      title="Webtide"></a>
  </div>
</div>

</div>
</div>

</main> <!-- /#main-content-container-row --><p id="back-to-top">
<a class="visible-xs" href="#top">Back to the top</a>
</p>
<footer role="contentinfo" id="solstice-footer">
<div class="container">
  <div class="row">
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-eclipse-

```

```

foundation">
    <h2 class="section-title">Eclipse Foundation</h2>
    <ul class="nav">
    <li><a href="http://www.eclipse.org/org/">About us</a></li>
    <li><a href="http://www.eclipse.org/org/foundation/contact.php">Contact Us</a></li>
    <li><a href="http://www.eclipse.org/donate">Donate</a></li>
    <li><a href="http://www.eclipse.org/org/documents/">Governance</a></li>
    <li><a href="http://www.eclipse.org/artwork/">Logo and Artwork</a></li>
    <li><a href="http://www.eclipse.org/org/foundation/directors.php">Board of Directors</a></li>
    </ul> </section>
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-legal">
        <h2 class="section-title">Legal</h2>
        <ul class="nav">
        <li><a href="http://www.eclipse.org/legal/privacy.php">Privacy Policy</a></li>
        <li><a href="http://www.eclipse.org/legal/termsfuse.php">Terms of Use</a></li>
        <li><a href="http://www.eclipse.org/legal/copyright.php">Copyright Agent</a></li>
        <li><a href="http://www.eclipse.org/org/documents/epl-v10.php">Eclipse Public License </a></li>
        <li><a href="http://www.eclipse.org/legal/">Legal Resources </a></li>
        </ul> </section>
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-useful-
links">
        <h2 class="section-title">Useful Links</h2>
        <ul class="nav">
        <li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li>
        <li><a href="//help.eclipse.org/">Documentation</a></li>
        <li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li>
        <li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li>
        <li><a href="http://www.eclipse.org/forums/">Forums</a></li>
        <li><a href="//marketplace.eclipse.org">Marketplace</a></li>
        </ul> </section>
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-other">
        <h2 class="section-title">Other</h2>
        <ul class="nav">
        <li><a href="http://www.eclipse.org/ide/">IDE and Tools</a></li>
        <li><a href="http://www.eclipse.org/projects">Community of Projects</a></li>
        <li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
        </ul>

    <ul class="list-inline social-media">
    <li><a href="https://twitter.com/EclipseFdn"><i class="fa fa-twitter-square"></i></a></li>
    <li><a href="https://plus.google.com/+Eclipse"><i class="fa fa-google-plus-square"></i></a></li>
    <li><a href="https://www.facebook.com/eclipse.org"><i class="fa fa-facebook-square"></i> </a></li>
    <li><a href="https://www.youtube.com/user/EclipseFdn"><i class="fa fa-youtube-square"></i></a></li>
    </ul> </section>
    <div id="copyright" class="col-sm-offset-1 col-sm-14 col-md-24 col-md-offset-0">
    <span class="hidden-print"><div class="wrapper-logo-eclipse-white"><a href="http://www.eclipse.org"></a></div></span>

```

```
<p id="copyright-text">Copyright &copy; 2016 The Eclipse Foundation. All Rights Reserved.</p>
</div> <a href="#" class="scrollup">Back to the top</a>
</div>
</div>
</footer>
<!-- Placed at the end of the document so the pages load faster -->
<script src="/eclipse.org-common/themes/solstice/public/javascript/main.min.js"></script>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-1149868-7']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

</body>
</html>
```

# 1.105 jgroups 3.6.11.Final

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- \*
- \* Adopted from Java Concurrency in Practice. This annotation defines the monitor that protects the variable
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- \* @author Bela Ban



# 1.106 jna 4.1.0

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed  
their package names from 'org.apache.velocity' to 'clover.org.apache.velocity'. This was necessary to  
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.  
No source code of the original library was modified.

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## 1.109 json-c 0.12

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# 1.110 json-c/test-driver 0.12

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```
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# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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## END OF TERMS AND CONDITIONS

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# 1.113 json4s-ast\_2.10 3.2.9

## 1.113.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" class="">
<head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article:
http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
<meta charset='utf-8'>

<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-
486a2ba13121ca853388bbaabfb1482328e14fc6107d2c46137b73a1d2bfb9b7.css" media="all" rel="stylesheet" />
<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-
a188e3c90771e1cf15418675011fd2967605127bbca3fd846147c3db0cc1044c.css" media="all" rel="stylesheet" />
```

<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-d2013a78fb2b0b2d9afce49f4cf82965d3f075b6b021bf51aa28d8df766f2ba4.css" media="all" rel="stylesheet" />

<link as="script" href="https://assets-cdn.github.com/assets/frameworks-90fadde68d68d108f0318274e0f72c8e36717b821c919eb6884c738f6bef8470.js" rel="preload" />

<link as="script" href="https://assets-cdn.github.com/assets/github-b34f54eabccd0ffa90e322cffdb0db239d492b9a986092f1aa602c5cf84d36b4.js" rel="preload" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta http-equiv="Content-Language" content="en">

<meta name="viewport" content="width=1020">

<title>json4s/LICENSE at v.3.2.9\_2.10 · json4s/json4s · GitHub</title>

<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">

<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">

<link rel="apple-touch-icon" href="/apple-touch-icon.png">

<link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-57x57.png">

<link rel="apple-touch-icon" sizes="60x60" href="/apple-touch-icon-60x60.png">

<link rel="apple-touch-icon" sizes="72x72" href="/apple-touch-icon-72x72.png">

<link rel="apple-touch-icon" sizes="76x76" href="/apple-touch-icon-76x76.png">

<link rel="apple-touch-icon" sizes="114x114" href="/apple-touch-icon-114x114.png">

<link rel="apple-touch-icon" sizes="120x120" href="/apple-touch-icon-120x120.png">

<link rel="apple-touch-icon" sizes="144x144" href="/apple-touch-icon-144x144.png">

<link rel="apple-touch-icon" sizes="152x152" href="/apple-touch-icon-152x152.png">

<link rel="apple-touch-icon" sizes="180x180" href="/apple-touch-icon-180x180.png">

<meta property="fb:app\_id" content="1401488693436528">

<meta content="https://avatars3.githubusercontent.com/u/2207799?v=3&size=400" name="twitter:image:src" /><meta content="@github" name="twitter:site" /><meta content="summary" name="twitter:card" /><meta content="json4s/json4s" name="twitter:title" /><meta content="json4s - A single AST to be used by other scala json libraries" name="twitter:description" />

<meta content="https://avatars3.githubusercontent.com/u/2207799?v=3&size=400" property="og:image" /><meta content="GitHub" property="og:site\_name" /><meta content="object" property="og:type" /><meta content="json4s/json4s" property="og:title" /><meta content="https://github.com/json4s/json4s" property="og:url" /><meta content="json4s - A single AST to be used by other scala json libraries" property="og:description" />

<meta name="browser-stats-url" content="https://api.github.com/\_private/browser/stats">

<meta name="browser-errors-url" content="https://api.github.com/\_private/browser/errors">

<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="pjax-timeout" content="1000">

<meta name="msapplication-TileImage" content="/windows-tile.png">

<meta name="msapplication-TileColor" content="#ffffff">

<meta name="selected-link" value="repo\_source" data-pjax-transient>

```
<meta name="google-site-verification" content="KT5gs8h0wvaagLKAVWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyeFw7w3e0-uOTltn8Jsck2F5StVihD0exw2fsA">
<meta name="google-analytics" content="UA-3769691-2">
```

```
<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-id" /><meta content="0C94D209:32AB:44E765:572A1C63" name="octolytics-dimension-request_id" />
<meta content="/&lt;user-name&gt;/&lt;repo-name&gt;/blob/show" data-pjax-transient="true" name="analytics-location" />
```

```
<meta class="js-ga-set" name="dimension1" content="Logged Out">
```

```
<meta name="hostname" content="github.com">
<meta name="user-login" content="">
```

```
<meta name="expected-hostname" content="github.com">
<meta name="js-proxy-site-detection-payload"
content="NzYzMzFhZGFmYzJiYTk2NzVkMDkzNzY4NDZhNzVmMThkNDkzYmFjMWJiZDViODRIYWYxMDk4YWI5Y2FhZGNhN3x7InJlbW90ZV9hZGRyZXNzIjoiMTIuMTQ4LjIxMC45IiwicmVxdWVzdF9pZCI6IjBDOTREMjA5OjMyQUI6NDRFNzY1OjU3MkExQzYzIiwidGltZXN0YW1wIjoxNDYyMzc3NTcxQ==">
```

```
<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#4078c0">
<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">
```

```
<meta content="e2275367ca68f3f94919a4594c653bb663174dc9" name="form-nonce" />
```

```
<meta http-equiv="x-pjax-version" content="b2937bc610dc6321adf5a5732e0de4bc">
```

```
<meta name="description" content="json4s - A single AST to be used by other scala json libraries">
<meta name="go-import" content="github.com/json4s/json4s git https://github.com/json4s/json4s.git">
```

```
<meta content="2207799" name="octolytics-dimension-user_id" /><meta content="json4s" name="octolytics-dimension-user_login" /><meta content="5533742" name="octolytics-dimension-repository_id" /><meta content="json4s/json4s" name="octolytics-dimension-repository_nwo" /><meta content="true" name="octolytics-dimension-repository_public" /><meta content="false" name="octolytics-dimension-repository_is_fork" /><meta content="5533742" name="octolytics-dimension-repository_network_root_id" /><meta content="json4s/json4s" name="octolytics-dimension-repository_network_root_nwo" />
<link href="https://github.com/json4s/json4s/commits/v.3.2.9_2.10.atom" rel="alternate" title="Recent Commits to json4s:v.3.2.9_2.10" type="application/atom+xml">
```

```
<link rel="canonical" href="https://github.com/json4s/json4s/blob/v.3.2.9_2.10/LICENSE" data-pjax-transient>
</head>
```

```
<body class="logged-out env-production vis-public page-blob">
  <div id="js-pjax-loader-bar" class="pjax-loader-bar"></div>
  <a href="#start-of-content" tabindex="1" class="accessibility-aid js-skip-to-content">Skip to content</a>
```

```
  <header class="site-header js-details-container" role="banner">
    <div class="container-responsive">
      <a class="header-logo-invertocat" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out)
Header, go to homepage, icon:logo-wordmark">
        <svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16"
width="32"><path d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 0.4 0.07 0.55-0.17 0.55-0.38 0-0.19-0.01-
0.82-0.01-1.49-2.01 0.37-2.53-0.49-2.69-0.94-0.09-0.23-0.48-0.94-0.82-1.13-0.28-0.15-0.68-0.52-0.01-0.53 0.63-
0.01 1.08 0.58 1.23 0.82 0.72 1.21 1.87 0.87 2.33 0.66 0.07-0.52 0.28-0.87 0.51-1.07-1.78-0.2-3.64-0.89-3.64-3.95
0-0.87 0.31-1.59 0.82-2.15-0.08-0.2-0.36-1.02 0.08-2.12 0 0 0.67-0.21 2.2 0.82 0.64-0.18 1.32-0.27 2-0.27 0.68 0
1.36 0.09 2 0.27 1.53-1.04 2.2-0.82 2.2-0.82 0.44 1.1 0.16 1.92 0.08 2.12 0.51 0.56 0.82 1.27 0.82 2.15 0 3.07-1.87
3.75-3.65 3.95 0.29 0.25 0.54 0.73 0.54 1.48 0 1.07-0.01 1.93-0.01 2.2 0 0.21 0.15 0.46 0.55 0.38C13.71 14.53 16
11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>
      </a>
```

```
    <button class="btn-link right site-header-toggle js-details-target" type="button" aria-label="Toggle navigation">
      <svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16"
width="18"><path d="M11.41 9H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59
1z m0-4H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1z M0.59
11h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1z"></path></svg>
    </button>
```

```
  <div class="site-header-menu">
    <nav class="site-header-nav site-header-nav-main">
      <a href="/personal" class="js-selected-navigation-item nav-item nav-item-personal" data-ga-click="Header,
click, Nav menu - item:personal" data-selected-links="/personal/personal">
        Personal
      </a>
      <a href="/open-source" class="js-selected-navigation-item nav-item nav-item-opensource" data-ga-
click="Header, click, Nav menu - item:opensource" data-selected-links="/open-source /open-source">
        Open source
      </a>
      <a href="/business" class="js-selected-navigation-item nav-item nav-item-business" data-ga-
click="Header, click, Nav menu - item:business" data-selected-links="/business /business/features
/business/customers /business">
        Business
      </a>
      <a href="/explore" class="js-selected-navigation-item nav-item nav-item-explore" data-ga-click="Header,
```

click, Nav menu - item:explore" data-selected-links="/explore /trending /trending/developers /integrations /integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship /explore">

Explore

</a> </nav>

<div class="site-header-actions">

<a class="btn btn-primary site-header-actions-btn" href="/join?source=header-repo" data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">Sign up</a>

<a class="btn site-header-actions-btn mr-2" href="/login?return\_to=%2Fjson4s%2Fjson4s%2Fblob%2Fv.3.2.9\_2.10%2FLICENSE" data-ga-click="(Logged out) Header, clicked Sign in, text:sign-in">Sign in</a>

</div>

<nav class="site-header-nav site-header-nav-secondary">

<a class="nav-item" href="/pricing">Pricing</a>

<a class="nav-item" href="/blog">Blog</a>

<a class="nav-item" href="https://help.github.com">Support</a>

<a class="nav-item header-search-link" href="https://github.com/search">Search GitHub</a>

<div class="header-search scoped-search site-scoped-search js-site-search" role="search">

<!-- </textarea --><!-- "" --><form accept-charset="UTF-8" action="/json4s/json4s/search" class="js-site-search-form" data-scoped-search-url="/json4s/json4s/search" data-unscoped-search-url="/search" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="&#x2713;" /></div>

<label class="form-control header-search-wrapper js-chromeless-input-container">

<div class="header-search-scope">This repository</div>

<input type="text"

class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"

data-hotkey="s"

name="q"

placeholder="Search"

aria-label="Search this repository"

data-unscoped-placeholder="Search GitHub"

data-scoped-placeholder="Search"

tabindex="1"

autocapitalize="off">

</label>

</form></div>

</nav>

</div>

</div>

</header>

<div id="start-of-content" class="accessibility-aid"></div>

<div id="js-flash-container">

</div>

```

<div role="main" class="main-content">
  <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
<div id="js-repo-pjax-container" data-pjax-container>

<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
<div class="container repohead-details-container">

<ul class="pagehead-actions">

<li>
  <a href="/login?return_to=%2Fjson4s%2Fjson4s"
  class="btn btn-sm btn-with-count tooltipped tooltipped-n"
  aria-label="You must be signed in to watch a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
    width="16"><path d="M8.06 2C3 2 0 8 8s3 6 8.06 6c4.94 0 7.94-6 7.94-6S13 2 8.06 2z m-0.06 10c-2.2 0-4-1.78-
    4-4 0-2.2 1.8-4 4-4 2.2 0 4 1.8 4 4 0 2.2-1.78 4-4 4zm-4c0 1.11-0.89 2-2 2s-2-0.89-2-2 0.89-2 2-2 0.89 2
    2z"></path></svg>
    Watch
  </a>
  <a class="social-count" href="/json4s/json4s/watchers">
    60
  </a>

</li>

<li>
  <a href="/login?return_to=%2Fjson4s%2Fjson4s"
  class="btn btn-sm btn-with-count tooltipped tooltipped-n"
  aria-label="You must be signed in to star a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
    width="14"><path d="M14 6l-4.9-0.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14l4.33-2.33 4.33 2.33L10.4 9.26 14
    6z"></path></svg>
    Star
  </a>
  <a class="social-count js-social-count" href="/json4s/json4s/stargazers">
    665
  </a>

</li>

<li>
  <a href="/login?return_to=%2Fjson4s%2Fjson4s"
  class="btn btn-sm btn-with-count tooltipped tooltipped-n"

```

```
aria-label="You must be signed in to fork a repository" rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
width="10"><path d="M8 1c-1.11 0-2 0.89-2 2 0 0.73 0.41 1.38 1 1.72v1.28L5 8 3 6v-1.28c0.59-0.34 1-0.98 1-1.72
0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72v1.78l3 3v1.78c-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-
0.89 2-2c0-0.73-0.41-1.38-1-1.72V9.5l3-3V4.72c0.59-0.34 1-0.98 1-1.72 0-1.11-0.89-2-2-2z" data-bbox="147 175 298 188"/>
Fork
</a>
```

```
<a href="/json4s/json4s/network" class="social-count">
162
</a>
</li>
</ul>
```

```
<h1 class="entry-title public ">
<svg aria-hidden="true" class="octicon octicon-repo" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M4 9h-1v-1h1v1z m0-3h-1v1h1v-1z m0-2h-1v1h1v-1z m8-1v12c0 0.55-
0.45 1-1 1H6v2l-1.5-1.5-1.5 1.5V14H1c-0.55 0-1-0.45-1-1V1C0 0.45 0 1 0h10c0.55 0 1 0.45 1 1z m-1
10H1v2h2v-1h3v1h5V11z m0-10H2v9h9V1z" data-bbox="147 388 578 438"/>
<span class="author" itemprop="author"><a href="/json4s" class="url fn" rel="author">json4s</a></span><!--
--><span class="path-divider"></span><!--
--><strong itemprop="name"><a href="/json4s/json4s" data-pjax="#js-repo-pjax-container">json4s</a></strong>
```

```
</h1>
</div>
<div class="container">
```

```
<nav class="reponav js-repo-nav js-sidenav-container-pjax"
itemscope
itemtype="http://schema.org/BreadcrumbList"
role="navigation"
data-pjax="#js-repo-pjax-container">
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
<a href="/json4s/json4s/tree/v.3.2.9_2.10" aria-selected="true" class="js-selected-navigation-item selected
reponav-item" data-hotkey="g c" data-selected-links="repo_source repo_downloads repo_commits repo_releases
repo_tags repo_branches /json4s/json4s/tree/v.3.2.9_2.10" itemprop="url">
<svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M9.5 3l-1.5 1.5 3.5 3.5L8 11.5l1.5 1.5 4.5-5L9.5 3zM4.5 3L0 3L0 8l4.5 3z" data-bbox="147 798 341 828"/>
<span itemprop="name">Code</span>
<meta itemprop="position" content="1">
</a> </span>
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a href="/json4s/json4s/issues" class="js-selected-navigation-item reponav-item" data-hotkey="g i" data-
selected-links="repo_issues repo_labels repo_milestones /json4s/json4s/issues" itemprop="url">
    <svg aria-hidden="true" class="octicon octicon-issue-opened" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7S10.14 13.7 7 13.7 1.3 11.14 1.3 8s2.56-5.7 5.7-5.7m0-
1.3C3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7S10.86 1 7 1z m1 3H6v5h2V4z m0 6H6v2h2V10z"></path></svg>
    <span itemprop="name">Issues</span>
    <span class="counter">123</span>
    <meta itemprop="position" content="2">
  </a> </span>
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a href="/json4s/json4s/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p" data-selected-
links="repo_pulls /json4s/json4s/pulls" itemprop="url">
    <svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12
16" width="12"><path d="M11 11.28c0-1.73 0-6.28 0-6.28-0.03-0.78-0.34-1.47-0.94-2.06s-1.28-0.91-2.06-0.94c0
0-1.02 0-1 0V0L4 3l3 3V4h1c0.27 0.02 0.48 0.11 0.69 0.31s0.3 0.42 0.31 0.69v6.28c-0.59 0.34-1 0.98-1 1.72 0 1.11
0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72z m-1 2.92c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-
0.55 1.2-1.2 1.2zM4 3c0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72 0 1.55 0 5.56 0 6.56-0.59 0.34-1 0.98-1
1.72 0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72V4.72c0.59-0.34 1-0.98 1-1.72z m-0.8 10c0 0.66-0.55
1.2-1.2 1.2s-1.2-0.55-1.2-1.2 0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2z m-1.2-8.8c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2
1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z"></path></svg>
    <span itemprop="name">Pull requests</span>
    <span class="counter">4</span>
    <meta itemprop="position" content="3">
  </a> </span>
```

```
<a href="/json4s/json4s/wiki" class="js-selected-navigation-item reponav-item" data-hotkey="g w" data-selected-
links="repo_wiki /json4s/json4s/wiki">
  <svg aria-hidden="true" class="octicon octicon-book" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M2 5h4v1H2v-1z m0 3h4v-1H2v1z m0 2h4v-1H2v1z m1 1-5H9v1h4v-1z m0 2H9v1h4v-1z
m0 2H9v1h4v-1z m2-6v9c0 0.55-0.45 1-1 1H8.5l-1 1-1-1H1c-0.55 0-1-0.45-1-1V3c0-0.55 0.45-1 1-1h5.5l1 1 1-
1h5.5c0.55 0 1 0.45 1 1z m-8 0.5l-0.5-0.5H1v9h6V3.5z m7-0.5H8.5l-0.5 0.5v8.5h6V3z"></path></svg>
  Wiki
</a>
```

```
<a href="/json4s/json4s/pulse" class="js-selected-navigation-item reponav-item" data-selected-links="pulse
/json4s/json4s/pulse">
  <svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0V10h3.6L4.5 8.2l0.9 5.4L9 8.5l1.6
1.5H14V8H11.5z"></path></svg>
  Pulse
</a>
```

```
<a href="/json4s/json4s/graphs" class="js-selected-navigation-item reponav-item" data-selected-
links="repo_graphs repo_contributors /json4s/json4s/graphs">
  <svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M16 14v1H0V0h1v14h15z m-11-1H3V8h2v5z m4 0H7V3h2v10z m4
0H11V6h2v7z"></path></svg>
```



```

    Graphs
  </a>

</nav>

</div>
</div>

<div class="container new-discussion-timeline experiment-repo-nav">
  <div class="repository-content">

<a href="/json4s/json4s/blob/1c522c5813e228af5a8ddb72d3772f87d250ea55/LICENSE" class="hidden js-permalink-shortcut" data-hotkey="y">Permalink</a>

<!-- blob contrib key: blob_contributors:v21:a1f69a6272393fcdef0b650c27436232 -->

<div class="file-navigation js-zeroclipboard-container">

<div class="select-menu branch-select-menu js-menu-container js-select-menu left">
  <button class="btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"
    title="v.3.2.9_2.10"
    type="button" aria-label="Switch branches or tags" tabindex="0" aria-haspopup="true">
    <i>Tag:</i>
    <span class="js-select-button css-truncate-target">v.3.2.9_2.10</span>
  </button>

<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax aria-hidden="true">

  <div class="select-menu-modal">
    <div class="select-menu-header">
      <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M7.48 813.75 3.75-1.48 1.48-3.75-3.75 3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.2511.48-1.48 3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
      <span class="select-menu-title">Switch branches/tags</span>
    </div>

    <div class="select-menu-filters">
      <div class="select-menu-text-filter">
        <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
      </div>
      <div class="select-menu-tabs">
        <ul>
          <li class="select-menu-tab">
            <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-tab" role="tab">Branches</a>

```

```

</li>
<li class="select-menu-tab">
  <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag..." class="js-select-menu-tab"
role="tab">Tags</a>
</li>
</ul>
</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">

<div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/blob/3.2/LICENSE"
    data-name="3.2"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="3.2">
      3.2
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/blob/3.3/LICENSE"
    data-name="3.3"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="3.3">
      3.3
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/blob/3.4/LICENSE"
    data-name="3.4"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="3.4">
      3.4
    </span>
  </a>

```

```

<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/blob/gh-pages/LICENSE"
  data-name="gh-pages"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="gh-pages">
    gh-pages
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/blob/macros/LICENSE"
  data-name="macros"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="macros">
    macros
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/blob/reflector-macro/LICENSE"
  data-name="reflector-macro"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="reflector-macro">
    reflector-macro
  </span>
</a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/tree/v3.3.0.RC6/LICENSE"
    data-name="v3.3.0.RC6"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

```

viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC6">
    v3.3.0.RC6
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.3.0.RC5/LICENSE"
  data-name="v3.3.0.RC5"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC5">
    v3.3.0.RC5
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.3.0.RC4/LICENSE"
  data-name="v3.3.0.RC4"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC4">
    v3.3.0.RC4
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.3.0.RC3/LICENSE"
  data-name="v3.3.0.RC3"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC3">
    v3.3.0.RC3
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.3.0.RC2/LICENSE"
  data-name="v3.3.0.RC2"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC2">
    v3.3.0.RC2
  </span>
</a>

```

```

</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.3.0.RC1/LICENSE"
  data-name="v3.3.0.RC1"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.3.0.RC1">
    v3.3.0.RC1
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.11_2.10/LICENSE"
  data-name="v3.2.11_2.10"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.11_2.10">
    v3.2.11_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.11/LICENSE"
  data-name="v3.2.11"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.11">
    v3.2.11
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.10_2.11/LICENSE"
  data-name="v3.2.10_2.11"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.10_2.11">
    v3.2.10_2.11
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.10_2.10/LICENSE"
  data-name="v3.2.10_2.10"

```

```

data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.10_2.10">
    v3.2.10_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v3.2.10/LICENSE"
data-name="v3.2.10"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.10">
    v3.2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v.3.2.9_2.11/LICENSE"
data-name="v.3.2.9_2.11"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v.3.2.9_2.11">
    v.3.2.9_2.11
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open selected"
href="/json4s/json4s/tree/v.3.2.9_2.10/LICENSE"
data-name="v.3.2.9_2.10"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v.3.2.9_2.10">
    v.3.2.9_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v.3.2.9/LICENSE"
data-name="v.3.2.9"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>

```

```

    <span class="select-menu-item-text css-truncate-target" title="v.3.2.9">
      v.3.2.9
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/tree/v.3.2.8_2.10/LICENSE"
    data-name="v.3.2.8_2.10"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v.3.2.8_2.10">
      v.3.2.8_2.10
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/tree/v3.2.8/LICENSE"
    data-name="v3.2.8"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v3.2.8">
      v3.2.8
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/tree/v3.2.7_2.10/LICENSE"
    data-name="v3.2.7_2.10"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v3.2.7_2.10">
      v3.2.7_2.10
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/json4s/json4s/tree/v.3.2.7/LICENSE"
    data-name="v.3.2.7"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v.3.2.7">
      v.3.2.7
    </span>
  </a>

```

```

<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.5_2.10/LICENSE"
  data-name="v3.2.5_2.10"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.5_2.10">
    v3.2.5_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.5/LICENSE"
  data-name="v3.2.5"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.5">
    v3.2.5
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.4_2.10/LICENSE"
  data-name="v3.2.4_2.10"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.4_2.10">
    v3.2.4_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.3_2.10/LICENSE"
  data-name="v3.2.3_2.10"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.3_2.10">
    v3.2.3_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/v3.2.3/LICENSE"
  data-name="v3.2.3"
  data-skip-pjax="true"

```



```

rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.3">
    v3.2.3
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v3.2.2_2.10/LICENSE"
data-name="v3.2.2_2.10"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.2_2.10">
    v3.2.2_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v3.2.2/LICENSE"
data-name="v3.2.2"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v3.2.2">
    v3.2.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v.3.2.0/LICENSE"
data-name="v.3.2.0"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v.3.2.0">
    v.3.2.0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/v.3.2.0_scala2.10/LICENSE"
data-name="v.3.2.0_scala2.10"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v.3.2.0_scala2.10">

```

```

    v.3.2.0_scala2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/3.3.0/LICENSE"
  data-name="3.3.0"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="3.3.0">
    3.3.0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/3.2.6_2.10/LICENSE"
  data-name="3.2.6_2.10"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="3.2.6_2.10">
    3.2.6_2.10
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/3.2.6/LICENSE"
  data-name="3.2.6"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="3.2.6">
    3.2.6
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/json4s/json4s/tree/3.2.4/LICENSE"
  data-name="3.2.4"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="3.2.4">
    3.2.4
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

```

```

href="/json4s/json4s/tree/3.2.1_2.10/LICENSE"
data-name="3.2.1_2.10"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="3.2.1_2.10">
  3.2.1_2.10
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/3.2.1/LICENSE"
data-name="3.2.1"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="3.2.1">
  3.2.1
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/3.1.0/LICENSE"
data-name="3.1.0"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="3.1.0">
  3.1.0
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/json4s/json4s/tree/2.10-3.1.0/LICENSE"
data-name="2.10-3.1.0"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="2.10-3.1.0">
  2.10-3.1.0
</span>
</a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

```

```

</div>
</div>
</div>

<div class="btn-group right">
  <a href="/json4s/json4s/find/v.3.2.9_2.10"
    class="js-pjax-capture-input btn btn-sm"
    data-pjax
    data-hotkey="t">
    Find file
  </a>
  <button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button
  tooltiped tooltiped-s" data-copied-hint="Copied!" type="button">Copy path</button>
</div>
<div class="breadcrumb js-zeroclipboard-target">
  <span class="repo-root js-repo-root"><span class="js-path-segment"><a
href="/json4s/json4s/tree/v.3.2.9_2.10"><span>json4s</span></a></span></span><span
class="separator"></span><strong class="final-path">LICENSE</strong>
</div>
</div>

<include-fragment class="commit-tease" src="/json4s/json4s/contributors/v.3.2.9_2.10/LICENSE">
<div>
  Fetching contributors&hellip;
</div>

<div class="commit-tease-contributors">
  
  <span class="loader-error">Cannot retrieve contributors at this time</span>
</div>
</include-fragment>
<div class="file">
  <div class="file-header">
  <div class="file-actions">

  <div class="btn-group">
    <a href="/json4s/json4s/raw/v.3.2.9_2.10/LICENSE" class="btn btn-sm " id="raw-url">Raw</a>
    <a href="/json4s/json4s/blame/v.3.2.9_2.10/LICENSE" class="btn btn-sm js-update-url-with-hash">Blame</a>
    <a href="/json4s/json4s/commits/v.3.2.9_2.10/LICENSE" class="btn btn-sm " rel="nofollow">History</a>
  </div>

  <button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
  aria-label="You must be signed in to make or propose changes">
    <svg aria-hidden="true" class="octicon octicon-pencil" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M0 12v3h3l8-3-3L0 12z m3 2H1V12h1v1h1v1z m10.3-9.3l-1.3 1.3-3-3 1.3-1.3c0.39-0.39
1.02-0.39 1.41 0l1.59 1.59c0.39 0.39 0.39 1.02 0 1.41z"></path></svg>

```

```
</button>
<button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
  aria-label="You must be signed in to make or propose changes">
  <svg aria-hidden="true" class="octicon octicon-trashcan" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M10 2H8c0-0.55-0.45-1-1-1H4c-0.55 0-1 0.45-1 1H1c-0.55 0-1 0.45-1 1v1c0 0.55 0.45 1 1
1v9c0 0.55 0.45 1 1 1h7c0.55 0 1-0.45 1-1V5c0.55 0 1-0.45 1-1v-1c0-0.55-0.45-1-1-1z m-1
12H2V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9z m1-10H1v-1h9v1z"></path></svg>
</button>
</div>
```

```
<div class="file-info">
  179 lines (150 sloc)
  <span class="file-info-divider"></span>
  9.94 KB
</div>
</div>
```

```
<div itemprop="text" class="blob-wrapper data type-text">
  <table class="highlight tab-size js-file-line-container" data-tab-size="8">
    <tr>
      <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
      <td id="LC1" class="blob-code blob-code-inner js-file-line"> Apache License</td>
    </tr>
    <tr>
      <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
      <td id="LC2" class="blob-code blob-code-inner js-file-line"> Version 2.0, January 2004</td>
    </tr>
    <tr>
      <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
      <td id="LC3" class="blob-code blob-code-inner js-file-line">
        http://www.apache.org/licenses/</td>
    </tr>
    <tr>
      <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
      <td id="LC4" class="blob-code blob-code-inner js-file-line">
    </td>
    </tr>
    <tr>
      <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
      <td id="LC5" class="blob-code blob-code-inner js-file-line"> TERMS AND CONDITIONS FOR USE,
        REPRODUCTION, AND DISTRIBUTION</td>
    </tr>
    <tr>
      <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
      <td id="LC6" class="blob-code blob-code-inner js-file-line">
    </td>
  </tr>
</table>
</div>
```

```

</tr>
<tr>
  <td id="L7" class="blob-num js-line-number" data-line-number="7"></td>
  <td id="LC7" class="blob-code blob-code-inner js-file-line"> 1. Definitions.</td>
</tr>
<tr>
  <td id="L8" class="blob-num js-line-number" data-line-number="8"></td>
  <td id="LC8" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L9" class="blob-num js-line-number" data-line-number="9"></td>
  <td id="LC9" class="blob-code blob-code-inner js-file-line"> "License" shall mean the terms
and conditions for use, reproduction,</td>
</tr>
<tr>
  <td id="L10" class="blob-num js-line-number" data-line-number="10"></td>
  <td id="LC10" class="blob-code blob-code-inner js-file-line"> and distribution as defined by Sections 1
through 9 of this document.</td>
</tr>
<tr>
  <td id="L11" class="blob-num js-line-number" data-line-number="11"></td>
  <td id="LC11" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L12" class="blob-num js-line-number" data-line-number="12"></td>
  <td id="LC12" class="blob-code blob-code-inner js-file-line"> "Licensor" shall mean the
copyright owner or entity authorized by</td>
</tr>
<tr>
  <td id="L13" class="blob-num js-line-number" data-line-number="13"></td>
  <td id="LC13" class="blob-code blob-code-inner js-file-line"> the copyright owner that is granting the
License.</td>
</tr>
<tr>
  <td id="L14" class="blob-num js-line-number" data-line-number="14"></td>
  <td id="LC14" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L15" class="blob-num js-line-number" data-line-number="15"></td>
  <td id="LC15" class="blob-code blob-code-inner js-file-line"> "Legal Entity" shall mean the
union of the acting entity and all</td>
</tr>
<tr>
  <td id="L16" class="blob-num js-line-number" data-line-number="16"></td>
  <td id="LC16" class="blob-code blob-code-inner js-file-line"> other entities that control, are controlled by,

```

<p>or are under common</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;tr&gt;</p>
<p>&lt;td id="L17" class="blob-num js-line-number" data-line-number="17"&gt;&lt;/td&gt;</p>	<p>&lt;td id="LC17" class="blob-code blob-code-inner js-file-line"&gt; control with that entity. For the purposes of this definition,&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L18" class="blob-num js-line-number" data-line-number="18"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC18" class="blob-code blob-code-inner js-file-line"&gt; &amp;quot;control&amp;quot; means (i) the power, direct or indirect, to cause the</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L19" class="blob-num js-line-number" data-line-number="19"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC19" class="blob-code blob-code-inner js-file-line"&gt; direction or management of such entity, whether by contract or</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L20" class="blob-num js-line-number" data-line-number="20"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC20" class="blob-code blob-code-inner js-file-line"&gt; otherwise, or (ii) ownership of fifty percent (50%) or more of the</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L21" class="blob-num js-line-number" data-line-number="21"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC21" class="blob-code blob-code-inner js-file-line"&gt; outstanding shares, or (iii) beneficial ownership of such entity.&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L22" class="blob-num js-line-number" data-line-number="22"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC22" class="blob-code blob-code-inner js-file-line"&gt;</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L23" class="blob-num js-line-number" data-line-number="23"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC23" class="blob-code blob-code-inner js-file-line"&gt; &amp;quot;You&amp;quot; (or &amp;quot;Your&amp;quot;)</p>	<p>&lt;/td&gt;</p>
<p>shall mean an individual or Legal Entity&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L24" class="blob-num js-line-number" data-line-number="24"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC24" class="blob-code blob-code-inner js-file-line"&gt; exercising permissions granted by this License.&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;td id="L25" class="blob-num js-line-number" data-line-number="25"&gt;&lt;/td&gt;</p>
<p>&lt;td id="LC25" class="blob-code blob-code-inner js-file-line"&gt;</p>	<p>&lt;/td&gt;</p>
<p>&lt;/tr&gt;</p>	<p>&lt;/tr&gt;</p>
<p>&lt;tr&gt;</p>	<p>&lt;tr&gt;</p>

	<td id="L26" class="blob-num js-line-number" data-line-number="26"></td>
	<td id="LC26" class="blob-code blob-code-inner js-file-line"> &quot;Source&quot; form shall mean the preferred form for making modifications,</td>
	</tr>
	<tr>
	<td id="L27" class="blob-num js-line-number" data-line-number="27"></td>
	<td id="LC27" class="blob-code blob-code-inner js-file-line"> including but not limited to software source code, documentation</td>
	</tr>
	<tr>
	<td id="L28" class="blob-num js-line-number" data-line-number="28"></td>
	<td id="LC28" class="blob-code blob-code-inner js-file-line"> source, and configuration files.</td>
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	<tr>
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	</tr>
	<tr>
	<td id="L30" class="blob-num js-line-number" data-line-number="30"></td>
	<td id="LC30" class="blob-code blob-code-inner js-file-line"> &quot;Object&quot; form shall mean any form resulting from mechanical</td>
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	<tr>
	<td id="L31" class="blob-num js-line-number" data-line-number="31"></td>
	<td id="LC31" class="blob-code blob-code-inner js-file-line"> transformation or translation of a Source form, including but</td>
	</tr>
	<tr>
	<td id="L32" class="blob-num js-line-number" data-line-number="32"></td>
	<td id="LC32" class="blob-code blob-code-inner js-file-line"> not limited to compiled object code, generated documentation,</td>
	</tr>
	<tr>
	<td id="L33" class="blob-num js-line-number" data-line-number="33"></td>
	<td id="LC33" class="blob-code blob-code-inner js-file-line"> and conversions to other media types.</td>
	</tr>
	<tr>
	<td id="L34" class="blob-num js-line-number" data-line-number="34"></td>
	<td id="LC34" class="blob-code blob-code-inner js-file-line">
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	<tr>
	<td id="L35" class="blob-num js-line-number" data-line-number="35"></td>
	<td id="LC35" class="blob-code blob-code-inner js-file-line"> &quot;Work&quot; shall mean the work of authorship, whether in Source or</td>
	</tr>
	<tr>



<pre> &lt;td id="L36" class="blob-num js-line-number" data-line-number="36"&gt;&lt;/td&gt; &lt;td id="LC36" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>Object form, made available under the License, as indicated by a</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L37" class="blob-num js-line-number" data-line-number="37"&gt;&lt;/td&gt; &lt;td id="LC37" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>copyright notice that is included in or attached to the work</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L38" class="blob-num js-line-number" data-line-number="38"&gt;&lt;/td&gt; &lt;td id="LC38" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>(an example is provided in the Appendix below).</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L39" class="blob-num js-line-number" data-line-number="39"&gt;&lt;/td&gt; &lt;td id="LC39" class="blob-code blob-code-inner js-file-line"&gt; </pre>	
<pre> &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L40" class="blob-num js-line-number" data-line-number="40"&gt;&lt;/td&gt; &lt;td id="LC40" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>“Derivative Works” shall mean any work, whether in Source or Object</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L41" class="blob-num js-line-number" data-line-number="41"&gt;&lt;/td&gt; &lt;td id="LC41" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>form, that is based on (or derived from) the Work and for which the</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L42" class="blob-num js-line-number" data-line-number="42"&gt;&lt;/td&gt; &lt;td id="LC42" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>editorial revisions, annotations, elaborations, or other modifications</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L43" class="blob-num js-line-number" data-line-number="43"&gt;&lt;/td&gt; &lt;td id="LC43" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>represent, as a whole, an original work of authorship. For the purposes</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L44" class="blob-num js-line-number" data-line-number="44"&gt;&lt;/td&gt; &lt;td id="LC44" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>of this License, Derivative Works shall not include works that remain</p>
<pre> &lt;/tr&gt; &lt;tr&gt; &lt;td id="L45" class="blob-num js-line-number" data-line-number="45"&gt;&lt;/td&gt; &lt;td id="LC45" class="blob-code blob-code-inner js-file-line"&gt; </pre>	<p>separable from, or merely link (or bind by name) to the interfaces of,</p>

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<tr>
  <td id="L46" class="blob-num js-line-number" data-line-number="46"></td>
  <td id="LC46" class="blob-code blob-code-inner js-file-line">    the Work and Derivative Works
thereof.</td>
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<tr>
  <td id="L47" class="blob-num js-line-number" data-line-number="47"></td>
  <td id="LC47" class="blob-code blob-code-inner js-file-line">
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<tr>
  <td id="L48" class="blob-num js-line-number" data-line-number="48"></td>
  <td id="LC48" class="blob-code blob-code-inner js-file-line">    &quot;Contribution&quot; shall mean any
work of authorship, including</td>
</tr>
<tr>
  <td id="L49" class="blob-num js-line-number" data-line-number="49"></td>
  <td id="LC49" class="blob-code blob-code-inner js-file-line">    the original version of the Work and any
modifications or additions</td>
</tr>
<tr>
  <td id="L50" class="blob-num js-line-number" data-line-number="50"></td>
  <td id="LC50" class="blob-code blob-code-inner js-file-line">    to that Work or Derivative Works thereof,
that is intentionally</td>
</tr>
<tr>
  <td id="L51" class="blob-num js-line-number" data-line-number="51"></td>
  <td id="LC51" class="blob-code blob-code-inner js-file-line">    submitted to Licensor for inclusion in the
Work by the copyright owner</td>
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<tr>
  <td id="L52" class="blob-num js-line-number" data-line-number="52"></td>
  <td id="LC52" class="blob-code blob-code-inner js-file-line">    or by an individual or Legal Entity
authorized to submit on behalf of</td>
</tr>
<tr>
  <td id="L53" class="blob-num js-line-number" data-line-number="53"></td>
  <td id="LC53" class="blob-code blob-code-inner js-file-line">    the copyright owner. For the purposes of this
definition, &quot;submitted&quot;</td>
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<tr>
  <td id="L54" class="blob-num js-line-number" data-line-number="54"></td>
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written communication sent</td>
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<p>&lt;td id="LC55" class="blob-code blob-code-inner js-file-line"&gt; including but not limited to&lt;/td&gt;</p>	<p>to the Licensor or its representatives,</p>
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<td id="L56" class="blob-num js-line-number" data-line-number="56"></td>	
<p>&lt;td id="LC56" class="blob-code blob-code-inner js-file-line"&gt; source code control systems,&lt;/td&gt;</p>	<p>communication on electronic mailing lists,</p>
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<tr>	
<td id="L57" class="blob-num js-line-number" data-line-number="57"></td>	
<p>&lt;td id="LC57" class="blob-code blob-code-inner js-file-line"&gt; by, or on behalf of, the&lt;/td&gt;</p>	<p>and issue tracking systems that are managed</p>
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<td id="L58" class="blob-num js-line-number" data-line-number="58"></td>	
<p>&lt;td id="LC58" class="blob-code blob-code-inner js-file-line"&gt; improving the Work, but&lt;/td&gt;</p>	<p>Licensor for the purpose of discussing and</p>
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<td id="L59" class="blob-num js-line-number" data-line-number="59"></td>	
<p>&lt;td id="LC59" class="blob-code blob-code-inner js-file-line"&gt; conspicuously marked or otherwise&lt;/td&gt;</p>	<p>excluding communication that is</p>
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<p>&lt;td id="LC60" class="blob-code blob-code-inner js-file-line"&gt; as &amp;quot;Not a Contribution.&amp;quot;&lt;/td&gt;</p>	<p>designated in writing by the copyright owner</p>
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<p>&lt;td id="LC62" class="blob-code blob-code-inner js-file-line"&gt; Licensor and any individual or Legal Entity&lt;/td&gt;</p>	<p>&amp;quot;Contributor&amp;quot; shall mean</p>
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<p>&lt;td id="LC63" class="blob-code blob-code-inner js-file-line"&gt; received by Licensor and&lt;/td&gt;</p>	<p>on behalf of whom a Contribution has been</p>
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<tr>	
<td id="L64" class="blob-num js-line-number" data-line-number="64"></td>	
<p>&lt;td id="LC64" class="blob-code blob-code-inner js-file-line"&gt; Work.&lt;/td&gt;</p>	<p>subsequently incorporated within the</p>
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<tr>
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  <td id="L66" class="blob-num js-line-number" data-line-number="66"></td>
  <td id="LC66" class="blob-code blob-code-inner js-file-line"> 2. Grant of Copyright License. Subject to the
terms and conditions of</td>
</tr>
<tr>
  <td id="L67" class="blob-num js-line-number" data-line-number="67"></td>
  <td id="LC67" class="blob-code blob-code-inner js-file-line"> this License, each Contributor hereby grants
to You a perpetual,</td>
</tr>
<tr>
  <td id="L68" class="blob-num js-line-number" data-line-number="68"></td>
  <td id="LC68" class="blob-code blob-code-inner js-file-line"> worldwide, non-exclusive, no-charge,
royalty-free, irrevocable</td>
</tr>
<tr>
  <td id="L69" class="blob-num js-line-number" data-line-number="69"></td>
  <td id="LC69" class="blob-code blob-code-inner js-file-line"> copyright license to reproduce, prepare
Derivative Works of,</td>
</tr>
<tr>
  <td id="L70" class="blob-num js-line-number" data-line-number="70"></td>
  <td id="LC70" class="blob-code blob-code-inner js-file-line"> publicly display, publicly perform,
sublicense, and distribute the</td>
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  <td id="L71" class="blob-num js-line-number" data-line-number="71"></td>
  <td id="LC71" class="blob-code blob-code-inner js-file-line"> Work and such Derivative Works in Source
or Object form.</td>
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<tr>
  <td id="L73" class="blob-num js-line-number" data-line-number="73"></td>
  <td id="LC73" class="blob-code blob-code-inner js-file-line"> 3. Grant of Patent License. Subject to the terms
and conditions of</td>
</tr>
<tr>
  <td id="L74" class="blob-num js-line-number" data-line-number="74"></td>
  <td id="LC74" class="blob-code blob-code-inner js-file-line"> this License, each Contributor hereby grants

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<p>to You a perpetual,</p>	<p>&lt;/td&gt;</p>
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</tr>	
<p>&lt;td id="L76" class="blob-num js-line-number" data-line-number="76"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC76" class="blob-code blob-code-inner js-file-line"&gt; (except as stated in this section) patent license to make, have made,&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L77" class="blob-num js-line-number" data-line-number="77"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC77" class="blob-code blob-code-inner js-file-line"&gt; use, offer to sell, sell, import, and otherwise transfer the Work,&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L78" class="blob-num js-line-number" data-line-number="78"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC78" class="blob-code blob-code-inner js-file-line"&gt; where such license applies only to those patent claims licensable&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
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<p>&lt;td id="L79" class="blob-num js-line-number" data-line-number="79"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC79" class="blob-code blob-code-inner js-file-line"&gt; by such Contributor that are necessarily infringed by their&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L80" class="blob-num js-line-number" data-line-number="80"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC80" class="blob-code blob-code-inner js-file-line"&gt; Contribution(s) alone or by combination of their Contribution(s)&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L81" class="blob-num js-line-number" data-line-number="81"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC81" class="blob-code blob-code-inner js-file-line"&gt; with the Work to which such Contribution(s) was submitted. If You&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L82" class="blob-num js-line-number" data-line-number="82"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC82" class="blob-code blob-code-inner js-file-line"&gt; institute patent litigation against any entity (including a&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
</tr>	
<p>&lt;td id="L83" class="blob-num js-line-number" data-line-number="83"&gt;&lt;/td&gt;</p> <p>&lt;td id="LC83" class="blob-code blob-code-inner js-file-line"&gt; cross-claim or counterclaim in a lawsuit) alleging that the Work&lt;/td&gt;</p>	<p>&lt;/td&gt;</p>
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<td id="L84" class="blob-num js-line-number" data-line-number="84"></td>	
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<td id="L85" class="blob-num js-line-number" data-line-number="85"></td>	
<td id="LC85" class="blob-code blob-code-inner js-file-line">	or contributory patent infringement, then any patent licenses</td>
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<td id="L86" class="blob-num js-line-number" data-line-number="86"></td>	
<td id="LC86" class="blob-code blob-code-inner js-file-line">	granted to You under this License for that Work shall terminate</td>
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<td id="L87" class="blob-num js-line-number" data-line-number="87"></td>	
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<td id="L89" class="blob-num js-line-number" data-line-number="89"></td>	
<td id="LC89" class="blob-code blob-code-inner js-file-line">	4. Redistribution. You may reproduce and distribute copies of the</td>
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<td id="L90" class="blob-num js-line-number" data-line-number="90"></td>	
<td id="LC90" class="blob-code blob-code-inner js-file-line">	Work or Derivative Works thereof in any medium, with or without</td>
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<td id="L91" class="blob-num js-line-number" data-line-number="91"></td>	
<td id="LC91" class="blob-code blob-code-inner js-file-line">	modifications, and in Source or Object form, provided that You</td>
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<td id="L92" class="blob-num js-line-number" data-line-number="92"></td>	
<td id="LC92" class="blob-code blob-code-inner js-file-line">	meet the following conditions:</td>
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<div data-bbox="285 109 1128 141" data-label="Text"><code>&lt;td id="L94" class="blob-num js-line-number" data-line-number="94"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 147 968 181" data-label="Text"><code>&lt;td id="LC94" class="blob-code blob-code-inner js-file-line"&gt;</code></div>	<div data-bbox="997 147 1505 181" data-label="Text">(a) You must give any other recipients of the</div>	
<div data-bbox="234 190 394 221" data-label="Text">Work or&lt;/td&gt;</div>		
<div data-bbox="272 232 333 262" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 273 325 302" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 311 1128 342" data-label="Text"><code>&lt;td id="L95" class="blob-num js-line-number" data-line-number="95"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 349 968 383" data-label="Text"><code>&lt;td id="LC95" class="blob-code blob-code-inner js-file-line"&gt;</code></div>	<div data-bbox="1021 349 1490 383" data-label="Text">Derivative Works a copy of this License;</div>	
<div data-bbox="234 392 343 421" data-label="Text">and&lt;/td&gt;</div>		
<div data-bbox="272 432 333 461" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 472 325 501" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 510 1128 542" data-label="Text"><code>&lt;td id="L96" class="blob-num js-line-number" data-line-number="96"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 551 968 582" data-label="Text"><code>&lt;td id="LC96" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		
<div data-bbox="234 591 304 620" data-label="Text">&lt;/td&gt;</div>		
<div data-bbox="272 631 333 660" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 672 325 701" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 710 1128 741" data-label="Text"><code>&lt;td id="L97" class="blob-num js-line-number" data-line-number="97"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 750 968 781" data-label="Text"><code>&lt;td id="LC97" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="997 750 1458 781" data-label="Text">(b) You must cause any modified files to</div>
<div data-bbox="234 790 557 822" data-label="Text">carry prominent notices&lt;/td&gt;</div>		
<div data-bbox="272 831 333 860" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 871 325 900" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 909 1128 940" data-label="Text"><code>&lt;td id="L98" class="blob-num js-line-number" data-line-number="98"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 949 968 981" data-label="Text"><code>&lt;td id="LC98" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="1021 949 1409 981" data-label="Text">stating that You changed the files;</div>
<div data-bbox="234 990 343 1019" data-label="Text">and&lt;/td&gt;</div>		
<div data-bbox="272 1030 333 1059" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 1070 325 1099" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 1108 1128 1140" data-label="Text"><code>&lt;td id="L99" class="blob-num js-line-number" data-line-number="99"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 1149 968 1180" data-label="Text"><code>&lt;td id="LC99" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		
<div data-bbox="234 1189 304 1218" data-label="Text">&lt;/td&gt;</div>		
<div data-bbox="272 1229 333 1258" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 1270 325 1299" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 1308 1155 1339" data-label="Text"><code>&lt;td id="L100" class="blob-num js-line-number" data-line-number="100"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 1348 983 1379" data-label="Text"><code>&lt;td id="LC100" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="1010 1348 1490 1379" data-label="Text">(c) You must retain, in the Source form of</div>
<div data-bbox="234 1388 541 1420" data-label="Text">any Derivative Works&lt;/td&gt;</div>		
<div data-bbox="272 1429 333 1458" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 1469 325 1498" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 1507 1155 1538" data-label="Text"><code>&lt;td id="L101" class="blob-num js-line-number" data-line-number="101"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 1547 983 1579" data-label="Text"><code>&lt;td id="LC101" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="1034 1547 1498 1579" data-label="Text">that You distribute, all copyright, patent,</div>
<div data-bbox="234 1588 464 1619" data-label="Text">trademark, and&lt;/td&gt;</div>		
<div data-bbox="272 1628 333 1657" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 1668 325 1697" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 1706 1155 1738" data-label="Text"><code>&lt;td id="L102" class="blob-num js-line-number" data-line-number="102"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 1747 983 1778" data-label="Text"><code>&lt;td id="LC102" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="1034 1747 1495 1778" data-label="Text">attribution notices from the Source form</div>
<div data-bbox="234 1787 440 1818" data-label="Text">of the Work,&lt;/td&gt;</div>		
<div data-bbox="272 1827 333 1856" data-label="Text">&lt;/tr&gt;</div>		
<div data-bbox="272 1868 325 1897" data-label="Text"><code>&lt;tr&gt;</code></div> <div data-bbox="285 1906 1155 1937" data-label="Text"><code>&lt;td id="L103" class="blob-num js-line-number" data-line-number="103"&gt;&lt;/td&gt;</code></div> <div data-bbox="285 1946 983 1977" data-label="Text"><code>&lt;td id="LC103" class="blob-code blob-code-inner js-file-line"&gt;</code></div>		<div data-bbox="1034 1946 1433 1977" data-label="Text">excluding those notices that do not</div>
<div data-bbox="234 1986 528 2018" data-label="Text">pertain to any part of&lt;/td&gt;</div>		

```

</tr>
<tr>
  <td id="L104" class="blob-num js-line-number" data-line-number="104"></td>
  <td id="LC104" class="blob-code blob-code-inner js-file-line">    the Derivative Works; and</td>
</tr>
<tr>
  <td id="L105" class="blob-num js-line-number" data-line-number="105"></td>
  <td id="LC105" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L106" class="blob-num js-line-number" data-line-number="106"></td>
  <td id="LC106" class="blob-code blob-code-inner js-file-line">    (d) If the Work includes a
&quot;NOTICE&quot; text file as part of its</td>
</tr>
<tr>
  <td id="L107" class="blob-num js-line-number" data-line-number="107"></td>
  <td id="LC107" class="blob-code blob-code-inner js-file-line">    distribution, then any Derivative Works
that You distribute must</td>
</tr>
<tr>
  <td id="L108" class="blob-num js-line-number" data-line-number="108"></td>
  <td id="LC108" class="blob-code blob-code-inner js-file-line">    include a readable copy of the attribution
notices contained</td>
</tr>
<tr>
  <td id="L109" class="blob-num js-line-number" data-line-number="109"></td>
  <td id="LC109" class="blob-code blob-code-inner js-file-line">    within such NOTICE file, excluding
those notices that do not</td>
</tr>
<tr>
  <td id="L110" class="blob-num js-line-number" data-line-number="110"></td>
  <td id="LC110" class="blob-code blob-code-inner js-file-line">    pertain to any part of the Derivative
Works, in at least one</td>
</tr>
<tr>
  <td id="L111" class="blob-num js-line-number" data-line-number="111"></td>
  <td id="LC111" class="blob-code blob-code-inner js-file-line">    of the following places: within a
NOTICE text file distributed</td>
</tr>
<tr>
  <td id="L112" class="blob-num js-line-number" data-line-number="112"></td>
  <td id="LC112" class="blob-code blob-code-inner js-file-line">    as part of the Derivative Works; within
the Source form or</td>
</tr>
<tr>
  <td id="L113" class="blob-num js-line-number" data-line-number="113"></td>
  <td id="LC113" class="blob-code blob-code-inner js-file-line">    documentation, if provided along with the

```



Derivative Works; or,</td>

</tr>

<tr>

<td id="L114" class="blob-num js-line-number" data-line-number="114"></td>

<td id="LC114" class="blob-code blob-code-inner js-file-line"> within a display generated by the

Derivative Works, if and</td>

</tr>

<tr>

<td id="L115" class="blob-num js-line-number" data-line-number="115"></td>

<td id="LC115" class="blob-code blob-code-inner js-file-line"> wherever such third-party notices

normally appear. The contents</td>

</tr>

<tr>

<td id="L116" class="blob-num js-line-number" data-line-number="116"></td>

<td id="LC116" class="blob-code blob-code-inner js-file-line"> of the NOTICE file are for informational

purposes only and</td>

</tr>

<tr>

<td id="L117" class="blob-num js-line-number" data-line-number="117"></td>

<td id="LC117" class="blob-code blob-code-inner js-file-line"> do not modify the License. You may add

Your own attribution</td>

</tr>

<tr>

<td id="L118" class="blob-num js-line-number" data-line-number="118"></td>

<td id="LC118" class="blob-code blob-code-inner js-file-line"> notices within Derivative Works that You

distribute, alongside</td>

</tr>

<tr>

<td id="L119" class="blob-num js-line-number" data-line-number="119"></td>

<td id="LC119" class="blob-code blob-code-inner js-file-line"> or as an addendum to the NOTICE text

from the Work, provided</td>

</tr>

<tr>

<td id="L120" class="blob-num js-line-number" data-line-number="120"></td>

<td id="LC120" class="blob-code blob-code-inner js-file-line"> that such additional attribution notices

cannot be construed</td>

</tr>

<tr>

<td id="L121" class="blob-num js-line-number" data-line-number="121"></td>

<td id="LC121" class="blob-code blob-code-inner js-file-line"> as modifying the License.</td>

</tr>

<tr>

<td id="L122" class="blob-num js-line-number" data-line-number="122"></td>

<td id="LC122" class="blob-code blob-code-inner js-file-line">

</td>

</tr>

<tr>

<td id="L123" class="blob-num js-line-number" data-line-number="123"></td>

<td id="LC123" class="blob-code blob-code-inner js-file-line">	You may add Your own copyright statement to Your modifications and</td>
</tr>	
<tr>	
<td id="L124" class="blob-num js-line-number" data-line-number="124"></td>	
<td id="LC124" class="blob-code blob-code-inner js-file-line">	may provide additional or different license terms and conditions</td>
</tr>	
<tr>	
<td id="L125" class="blob-num js-line-number" data-line-number="125"></td>	
<td id="LC125" class="blob-code blob-code-inner js-file-line">	for use, reproduction, or distribution of Your modifications, or</td>
</tr>	
<tr>	
<td id="L126" class="blob-num js-line-number" data-line-number="126"></td>	
<td id="LC126" class="blob-code blob-code-inner js-file-line">	for any such Derivative Works as a whole, provided Your use,</td>
</tr>	
<tr>	
<td id="L127" class="blob-num js-line-number" data-line-number="127"></td>	
<td id="LC127" class="blob-code blob-code-inner js-file-line">	reproduction, and distribution of the Work otherwise complies with</td>
</tr>	
<tr>	
<td id="L128" class="blob-num js-line-number" data-line-number="128"></td>	
<td id="LC128" class="blob-code blob-code-inner js-file-line">	the conditions stated in this License.</td>
</tr>	
<tr>	
<td id="L129" class="blob-num js-line-number" data-line-number="129"></td>	
<td id="LC129" class="blob-code blob-code-inner js-file-line">	
</td>	
</tr>	
<tr>	
<td id="L130" class="blob-num js-line-number" data-line-number="130"></td>	
<td id="LC130" class="blob-code blob-code-inner js-file-line">	5. Submission of Contributions. Unless You explicitly state otherwise,</td>
</tr>	
<tr>	
<td id="L131" class="blob-num js-line-number" data-line-number="131"></td>	
<td id="LC131" class="blob-code blob-code-inner js-file-line">	any Contribution intentionally submitted for inclusion in the Work</td>
</tr>	
<tr>	
<td id="L132" class="blob-num js-line-number" data-line-number="132"></td>	
<td id="LC132" class="blob-code blob-code-inner js-file-line">	by You to the Licensor shall be under the terms and conditions of</td>
</tr>	
<tr>	

<td id="L133" class="blob-num js-line-number" data-line-number="133"></td>	<td id="LC133" class="blob-code blob-code-inner js-file-line"> this License, without any additional terms or conditions.</td>
</tr>	<tr>
<td id="L134" class="blob-num js-line-number" data-line-number="134"></td>	<td id="LC134" class="blob-code blob-code-inner js-file-line"> Notwithstanding the above, nothing herein shall supersede or modify</td>
</tr>	<tr>
<td id="L135" class="blob-num js-line-number" data-line-number="135"></td>	<td id="LC135" class="blob-code blob-code-inner js-file-line"> the terms of any separate license agreement you may have executed</td>
</tr>	<tr>
<td id="L136" class="blob-num js-line-number" data-line-number="136"></td>	<td id="LC136" class="blob-code blob-code-inner js-file-line"> with Licensor regarding such Contributions.</td>
</tr>	<tr>
<td id="L137" class="blob-num js-line-number" data-line-number="137"></td>	<td id="LC137" class="blob-code blob-code-inner js-file-line">
</td>	</td>
</tr>	<tr>
<td id="L138" class="blob-num js-line-number" data-line-number="138"></td>	<td id="LC138" class="blob-code blob-code-inner js-file-line"> 6. Trademarks. This License does not grant permission to use the trade</td>
</tr>	<tr>
<td id="L139" class="blob-num js-line-number" data-line-number="139"></td>	<td id="LC139" class="blob-code blob-code-inner js-file-line"> names, trademarks, service marks, or product names of the Licensor,</td>
</tr>	<tr>
<td id="L140" class="blob-num js-line-number" data-line-number="140"></td>	<td id="LC140" class="blob-code blob-code-inner js-file-line"> except as required for reasonable and customary use in describing the</td>
</tr>	<tr>
<td id="L141" class="blob-num js-line-number" data-line-number="141"></td>	<td id="LC141" class="blob-code blob-code-inner js-file-line"> origin of the Work and reproducing the content of the NOTICE file.</td>
</tr>	<tr>
<td id="L142" class="blob-num js-line-number" data-line-number="142"></td>	<td id="LC142" class="blob-code blob-code-inner js-file-line">
</td>	</td>

</tr>  
<tr>  
<td id="L143" class="blob-num js-line-number" data-line-number="143"></td>  
<td id="LC143" class="blob-code blob-code-inner js-file-line"> 7. Disclaimer of Warranty. Unless required by applicable law or</td>  
</tr>  
<tr>  
<td id="L144" class="blob-num js-line-number" data-line-number="144"></td>  
<td id="LC144" class="blob-code blob-code-inner js-file-line"> agreed to in writing, Licensor provides the Work (and each</td>  
</tr>  
<tr>  
<td id="L145" class="blob-num js-line-number" data-line-number="145"></td>  
<td id="LC145" class="blob-code blob-code-inner js-file-line"> Contributor provides its Contributions) on an &quot;AS IS&quot; BASIS,</td>  
</tr>  
<tr>  
<td id="L146" class="blob-num js-line-number" data-line-number="146"></td>  
<td id="LC146" class="blob-code blob-code-inner js-file-line"> WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or</td>  
</tr>  
<tr>  
<td id="L147" class="blob-num js-line-number" data-line-number="147"></td>  
<td id="LC147" class="blob-code blob-code-inner js-file-line"> implied, including, without limitation, any warranties or conditions</td>  
</tr>  
<tr>  
<td id="L148" class="blob-num js-line-number" data-line-number="148"></td>  
<td id="LC148" class="blob-code blob-code-inner js-file-line"> of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A</td>  
</tr>  
<tr>  
<td id="L149" class="blob-num js-line-number" data-line-number="149"></td>  
<td id="LC149" class="blob-code blob-code-inner js-file-line"> PARTICULAR PURPOSE. You are solely responsible for determining the</td>  
</tr>  
<tr>  
<td id="L150" class="blob-num js-line-number" data-line-number="150"></td>  
<td id="LC150" class="blob-code blob-code-inner js-file-line"> appropriateness of using or redistributing the Work and assume any</td>  
</tr>  
<tr>  
<td id="L151" class="blob-num js-line-number" data-line-number="151"></td>  
<td id="LC151" class="blob-code blob-code-inner js-file-line"> risks associated with Your exercise of permissions under this License.</td>  
</tr>  
<tr>  
<td id="L152" class="blob-num js-line-number" data-line-number="152"></td>

```

      <td id="LC152" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
      <td id="L153" class="blob-num js-line-number" data-line-number="153"></td>
      <td id="LC153" class="blob-code blob-code-inner js-file-line"> 8. Limitation of Liability. In no event and
under no legal theory,</td>
</tr>
<tr>
      <td id="L154" class="blob-num js-line-number" data-line-number="154"></td>
      <td id="LC154" class="blob-code blob-code-inner js-file-line"> whether in tort (including negligence),
contract, or otherwise,</td>
</tr>
<tr>
      <td id="L155" class="blob-num js-line-number" data-line-number="155"></td>
      <td id="LC155" class="blob-code blob-code-inner js-file-line"> unless required by applicable law (such as
deliberate and grossly</td>
</tr>
<tr>
      <td id="L156" class="blob-num js-line-number" data-line-number="156"></td>
      <td id="LC156" class="blob-code blob-code-inner js-file-line"> negligent acts) or agreed to in writing, shall
any Contributor be</td>
</tr>
<tr>
      <td id="L157" class="blob-num js-line-number" data-line-number="157"></td>
      <td id="LC157" class="blob-code blob-code-inner js-file-line"> liable to You for damages, including any
direct, indirect, special,</td>
</tr>
<tr>
      <td id="L158" class="blob-num js-line-number" data-line-number="158"></td>
      <td id="LC158" class="blob-code blob-code-inner js-file-line"> incidental, or consequential damages of any
character arising as a</td>
</tr>
<tr>
      <td id="L159" class="blob-num js-line-number" data-line-number="159"></td>
      <td id="LC159" class="blob-code blob-code-inner js-file-line"> result of this License or out of the use or
inability to use the</td>
</tr>
<tr>
      <td id="L160" class="blob-num js-line-number" data-line-number="160"></td>
      <td id="LC160" class="blob-code blob-code-inner js-file-line"> Work (including but not limited to damages
for loss of goodwill,</td>
</tr>
<tr>
      <td id="L161" class="blob-num js-line-number" data-line-number="161"></td>
      <td id="LC161" class="blob-code blob-code-inner js-file-line"> work stoppage, computer failure or
malfunction, or any and all</td>
</tr>

```

	<p>other commercial damages or losses), even if such Contributor</p>
	<p>has been advised of the possibility of such damages.</p>
	<p>9. Accepting Warranty or Additional Liability. While redistributing</p>
	<p>the Work or Derivative Works thereof, You may choose to offer,</p>
	<p>and charge a fee for, acceptance of support, warranty, indemnity,</p>
	<p>or other liability obligations and/or rights consistent with this</p>
	<p>License. However, in accepting such obligations, You may act only</p>
	<p>on Your own behalf and on Your sole responsibility, not on behalf</p>
	<p>of any other Contributor, and only if You</p>

```

agree to indemnify,</td>
</tr>
<tr>
<td id="L172" class="blob-num js-line-number" data-line-number="172"></td>
<td id="LC172" class="blob-code blob-code-inner js-file-line"> defend, and hold each Contributor harmless
for any liability</td>
</tr>
<tr>
<td id="L173" class="blob-num js-line-number" data-line-number="173"></td>
<td id="LC173" class="blob-code blob-code-inner js-file-line"> incurred by, or claims asserted against, such
Contributor by reason</td>
</tr>
<tr>
<td id="L174" class="blob-num js-line-number" data-line-number="174"></td>
<td id="LC174" class="blob-code blob-code-inner js-file-line"> of your accepting any such warranty or
additional liability.</td>
</tr>
<tr>
<td id="L175" class="blob-num js-line-number" data-line-number="175"></td>
<td id="LC175" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L176" class="blob-num js-line-number" data-line-number="176"></td>
<td id="LC176" class="blob-code blob-code-inner js-file-line"> END OF TERMS AND CONDITIONS</td>
</tr>
<tr>
<td id="L177" class="blob-num js-line-number" data-line-number="177"></td>
<td id="LC177" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L178" class="blob-num js-line-number" data-line-number="178"></td>
<td id="LC178" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
</table>

</div>

</div>

```

```

<button type="button" data-facebox="#jump-to-line" data-facebox-class="linejump" data-hotkey="I"
class="hidden">Jump to Line</button>
<div id="jump-to-line" style="display:none">
<!-- </textarea> --><!-- "" --><form accept-charset="UTF-8" action="" class="js-jump-to-line-form"
method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="&#x2713;" /></div>

```

```
<input class="form-control linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line&hellip;"
aria-label="Jump to line" autofocus>
  <button type="submit" class="btn">Go</button>
</form></div>
```

```
</div>
<div class="modal-backdrop"></div>
</div>
```

```
</div>
</div>
```

```
</div>
```

```
<div class="container site-footer-container">
<div class="site-footer" role="contentinfo">
  <ul class="site-footer-links right">
    <li><a href="https://status.github.com/" data-ga-click="Footer, go to status, text:status">Status</a></li>
    <li><a href="https://developer.github.com" data-ga-click="Footer, go to api, text:api">API</a></li>
    <li><a href="https://training.github.com" data-ga-click="Footer, go to training, text:training">Training</a></li>
    <li><a href="https://shop.github.com" data-ga-click="Footer, go to shop, text:shop">Shop</a></li>
    <li><a href="https://github.com/blog" data-ga-click="Footer, go to blog, text:blog">Blog</a></li>
    <li><a href="https://github.com/about" data-ga-click="Footer, go to about, text:about">About</a></li>
  </ul>
```

```
<a href="https://github.com" aria-label="Homepage" class="site-footer-mark" title="GitHub">
  <svg aria-hidden="true" class="octicon octicon-mark-github" height="24" version="1.1" viewBox="0 0 16 16"
width="24"><path d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 0.4 0.07 0.55-0.17 0.55-0.38 0-0.19-0.01-
0.82-0.01-1.49-2.01 0.37-2.53-0.49-2.69-0.94-0.09-0.23-0.48-0.94-0.82-1.13-0.28-0.15-0.68-0.52-0.01-0.53 0.63-
0.01 1.08 0.58 1.23 0.82 0.72 1.21 1.87 0.87 2.33 0.66 0.07-0.52 0.28-0.87 0.51-1.07-1.78-0.2-3.64-0.89-3.64-3.95
0-0.87 0.31-1.59 0.82-2.15-0.08-0.2-0.36-1.02 0.08-2.12 0 0 0.67-0.21 2.2 0.82 0.64-0.18 1.32-0.27 2-0.27 0.68 0
1.36 0.09 2 0.27 1.53-1.04 2.2-0.82 2.2-0.82 0.44 1.1 0.16 1.92 0.08 2.12 0.51 0.56 0.82 1.27 0.82 2.15 0 3.07-1.87
3.75-3.65 3.95 0.29 0.25 0.54 0.73 0.54 1.48 0 1.07-0.01 1.93-0.01 2.2 0 0.21 0.15 0.46 0.55 0.38C13.71 14.53 16
11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>
```

```
</a>
<ul class="site-footer-links">
  <li>&copy; 2016 <span title="0.11191s from github-fe148-cp1-prd.iad.github.net">GitHub</span>, Inc.</li>
  <li><a href="https://github.com/site/terms" data-ga-click="Footer, go to terms, text:terms">Terms</a></li>
  <li><a href="https://github.com/site/privacy" data-ga-click="Footer, go to privacy,
text:privacy">Privacy</a></li>
  <li><a href="https://github.com/security" data-ga-click="Footer, go to security,
text:security">Security</a></li>
  <li><a href="https://github.com/contact" data-ga-click="Footer, go to contact, text:contact">Contact</a></li>
  <li><a href="https://help.github.com" data-ga-click="Footer, go to help, text:help">Help</a></li>
</ul>
</div>
```



</div>

```
<div id="ajax-error-message" class="ajax-error-message flash flash-error">
  <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M15.72 12.51-6.85-11.98C8.69 0.21 8.36 0.02 8 0.02s-0.69 0.19-0.87 0.51-6.85 11.98c-0.18
0.31-0.18 0.69 0 1C0.47 13.81 0.8 14 1.15 14h13.7c0.36 0 0.69-0.19 0.86-0.5S15.89 12.81 15.72 12.5zM9
12H7V10h2V12zM9 9H7V5h2V9z"></path></svg>
  <button type="button" class="flash-close js-flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
    <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M7.48 813.75 3.75-1.48 1.48-3.75-3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.2511.48-1.48
3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
  </button>
  Something went wrong with that request. Please try again.
</div>
```

```
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/compat-
7db58f8b7b9111107fac755dd8b178fe7db0f209ced51fc339c446ad3f8da2b.js"></script>
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-
90fadde68d68d108f0318274e0f72c8e36717b821c919eb6884c738f6bef8470.js"></script>
<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github-
b34f54eabcc0ffa90e322cffdb0db239d492b9a986092f1aa602c5cf84d36b4.js"></script>
```

```
<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner hidden">
  <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M15.72 12.51-6.85-11.98C8.69 0.21 8.36 0.02 8 0.02s-0.69 0.19-0.87 0.51-6.85 11.98c-0.18
0.31-0.18 0.69 0 1C0.47 13.81 0.8 14 1.15 14h13.7c0.36 0 0.69-0.19 0.86-0.5S15.89 12.81 15.72 12.5zM9
12H7V10h2V12zM9 9H7V5h2V9z"></path></svg>
  <span class="signed-in-tab-flash">You signed in with another tab or window. <a href="">Reload</a> to refresh
your session.</span>
  <span class="signed-out-tab-flash">You signed out in another tab or window. <a href="">Reload</a> to refresh
your session.</span>
</div>
<div class="facebox" id="facebox" style="display:none;">
<div class="facebox-popup">
  <div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-
description">
</div>
```

```
<button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
  <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M7.48 813.75 3.75-1.48 1.48-3.75-3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.2511.48-1.48
3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
</button>
</div>
</div>

</body>
</html>
```

## 1.114 jstl 1.1.2

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## 1.119 keyutils 1.5.9

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free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a



work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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## 1.120 kmod 21.0

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

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

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

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

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## 1.122 libaio 0.3.110

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## 1.123 libassuan 2.2.1

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

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

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- a) Accompany the work with the complete corresponding

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

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Version 3, 29 June 2007

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```

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## 1.125 libcap-ng 0.7.7

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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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```
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 *
 * Adapted from OpenBSD libc *err* *warn* code.
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```
*/
```

```
#if HAVE_CONFIG_H  
#include <config.h>  
#endif
```

```
#include <stdlib.h>  
#include <stdio.h>  
#include <string.h>  
#include <errno.h>
```

```
#include "gpgrt-int.h"  
#include "gettext.h"  
#include "init.h"
```

```
#ifdef HAVE_W32CE_SYSTEM  
# include "mkw32errmap.map.c" /* Generated map_w32codes () */  
# ifndef TLS_OUT_OF_INDEXES  
# define TLS_OUT_OF_INDEXES 0xFFFFFFFF  
# endif  
# ifndef __MINGW32CE__
```



```

# /* Replace the Mingw32CE provided abort function. */
# define abort() do { TerminateProcess (GetCurrentProcess(), 8); } while (0)
# endif
#endif

/* Locale directory support. */

#if HAVE_W32_SYSTEM

#include <windows.h>

static int tls_index = TLS_OUT_OF_INDEXES; /* Index for the TLS functions. */

static char *get_locale_dir (void);
static void drop_locale_dir (char *locale_dir);

#else /*!HAVE_W32_SYSTEM*/

#define get_locale_dir() LOCALEDIR
#define drop_locale_dir(dir)

#endif /*!HAVE_W32_SYSTEM*/

/* The realloc function as set by gpgrt_set_alloc_func. */
static void *(*custom_realloc)(void *a, size_t n);

static void
real_init (void)
{
#ifdef ENABLE_NLS
char *locale_dir;

/* We only have to bind our locale directory to our text domain. */
locale_dir = get_locale_dir ();
if (locale_dir)
{
bindtextdomain (PACKAGE, locale_dir);
drop_locale_dir (locale_dir);
}
#endif
_gpgrt_es_init ();
}

/* Initialize the library. This function should be run early. */

```

```

gpg_error_t
_gpg_err_init (void)
{
#ifdef HAVE_W32_SYSTEM
#ifdef DLL_EXPORT
/* We always have a constructor and thus this function is called
   automatically. Due to the way the C init code of mingw works,
   the constructors are called before ourDllMain function is
   called. The problem with that is that the TLS has not been setup
   and w32-gettext.c requires TLS. To solve this we do nothing here
   but call the actual init code from ourDllMain. */
#else /*!DLL_EXPORT*/
/* Note that if the TLS is actually used, we can't release the TLS
   as there is no way to know when a thread terminates (i.e. no
   thread-specific-atexit). You are really better off to use the
   DLL! */
if (tls_index == TLS_OUT_OF_INDEXES)
{
    tls_index = TlsAlloc ();
    if (tls_index == TLS_OUT_OF_INDEXES)
    {
        /* No way to continue - commit suicide. */
        abort ();
    }
    _gpg_w32__init_gettext_module ();
    real_init ();
}
#endif /*!DLL_EXPORT*/
#else
real_init ();
#endif
return 0;
}

```

```

/* Deinitialize libgpg-error. This function is only used in special
   circumstances. No gpg-error function should be used after this
   function has been called. A value of 0 passed for MODE
   deinitializes the entire libgpg-error, a value of 1 releases
   resources allocated for the current thread and only that thread may
   not anymore access libgpg-error after such a call. Under Windows
   this function may be called from theDllMain function of a DLL
   which statically links to libgpg-error. */

```

```

void
_gpg_err_deinit (int mode)
{
#ifdef defined (HAVE_W32_SYSTEM) && !defined (DLL_EXPORT)
struct tls_space_s *tls;

```

```

tls = TlsGetValue (tls_index);
if (tls)
{
    TlsSetValue (tls_index, NULL);
    LocalFree (tls);
}

if (mode == 0)
{
    TlsFree (tls_index);
    tls_index = TLS_OUT_OF_INDEXES;
}
#else
(void)mode;
#endif
}

```

/\* Register F as allocation function. This function is used for all APIs which return an allocated buffer. F needs to have standard realloc semantics. It should be called as early as possible and not changed later. \*/

```

void
_gpgmt_set_alloc_func (void *(*f)(void *a, size_t n))
{
    custom_realloc = f;
}

```

/\* The realloc to be used for data returned by the public API. \*/

```

void *
_gpgmt_realloc (void *a, size_t n)
{
    if (custom_realloc)
        return custom_realloc (a, n);

    if (!a)
        return malloc (n);

    if (!n)
    {
        free (a);
        return NULL;
    }
}

```

```

return realloc (a, n);
}

/* The malloc to be used for data returned by the public API. */
void *
_gpgrt_malloc (size_t n)
{
if (!n)
n++;
return _gpgrt_realloc (NULL, n);
}

/* The free to be used for data returned by the public API. */
void
_gpgrt_free (void *a)
{
_gpgrt_realloc (a, 0);
}

void
_gpg_err_set_errno (int err)
{
#ifdef HAVE_W32CE_SYSTEM
SetLastError (err);
#else /*!HAVE_W32CE_SYSTEM*/
errno = err;
#endif /*!HAVE_W32CE_SYSTEM*/
}

#ifdef HAVE_W32_SYSTEM
/*****
***** Below is only Windows code. *****/
*****/

static char *
get_locale_dir (void)
{
static wchar_t moddir[MAX_PATH+5];
char *result, *p;
int nbytes;

if (!GetModuleFileNameW (NULL, moddir, MAX_PATH))
*moddir = 0;

```

```

#define SLDIR "\\share\\locale"
if (*moddir)
{
nbytes = WideCharToMultiByte (CP_UTF8, 0, moddir, -1, NULL, 0, NULL, NULL);
if (nbytes < 0)
return NULL;

result = malloc (nbytes + strlen (SLDIR) + 1);
if (result)
{
nbytes = WideCharToMultiByte (CP_UTF8, 0, moddir, -1,
result, nbytes, NULL, NULL);

if (nbytes < 0)
{
free (result);
result = NULL;
}
else
{
p = strchr (result, '\\');
if (p)
*p = 0;
/* If we are installed below "bin" strip that part and
use the top directory instead.

Background: Under Windows we don't install GnuPG
below bin/ but in the top directory with only share/,
lib/, and etc/ below it. One of the reasons is to
keep the the length of the filenames at bay so not to
increase the limited length of the PATH envvar.
Another and more important reason, however, is that
the very first GPG versions on W32 were installed
into a flat directory structure and for best
compatibility with these versions we didn't changed
that later. For WindowsCE we can right away install
it under bin, though. The hack with detection of the
bin directory part allows us to eventually migrate to
such a directory layout under plain Windows without
the need to change libgpg-error. */
p = strchr (result, '\\');
if (p && !strcmp (p+1, "bin"))
*p = 0;
/* Append the static part. */
strcat (result, SLDIR);
}
}
}

```

```

else /* Use the old default value. */
{
    result = malloc (10 + strlen (SLDIR) + 1);
    if (result)
    {
        strcpy (result, "c:\\gnupg");
        strcat (result, SLDIR);
    }
}
#endif SLDIR
return result;
}

static void
drop_locale_dir (char *locale_dir)
{
    free (locale_dir);
}

/* Return the tls object. This function is guaranteed to return a
   valid non-NULL object. */
struct tls_space_s *
get_tls (void)
{
    struct tls_space_s *tls;

    tls = TlsGetValue (tls_index);
    if (!tls)
    {
        /* Called by a thread which existed before this DLL was loaded.
           Allocate the space. */
        tls = LocalAlloc (LPTR, sizeof *tls);
        if (!tls)
        {
            /* No way to continue - commit suicide. */
            abort ();
        }
        tls->gt_use_utf8 = 0;
        TlsSetValue (tls_index, tls);
    }

    return tls;
}

/* Return the value of the ERRNO variable. This needs to be a

```

```

function so that we can have a per-thread ERRNO. This is used only
on WindowsCE because that OS misses an errno. */
#ifdef HAVE_W32CE_SYSTEM
int
_gpg_w32ce_get_errno (void)
{
    return map_w32codes ( GetLastError () );
}
#endif /*HAVE_W32CE_SYSTEM*/

/* Replacement strerror function for WindowsCE. */
#ifdef HAVE_W32CE_SYSTEM
char *
_gpg_w32ce_strerror (int err)
{
    struct tls_space_s *tls = get_tls ();
    wchar_t tmpbuf[STRBUFFER_SIZE];
    int n;

    if (err == -1)
        err = _gpg_w32ce_get_errno ();

    /* Note: On a German HTC Touch Pro2 device I also tried
       LOCALE_USER_DEFAULT and LOCALE_SYSTEM_DEFAULT - both returned
       English messages. */
    if (FormatMessageW (FORMAT_MESSAGE_FROM_SYSTEM, NULL, err,
                       MAKELANGID (LANG_NEUTRAL, SUBLANG_DEFAULT),
                       tmpbuf, STRBUFFER_SIZE -1,
                       NULL))
    {
        n = WideCharToMultiByte (CP_UTF8, 0, tmpbuf, -1,
                                tls->strerror_buffer,
                                sizeof tls->strerror_buffer -1,
                                NULL, NULL);
    }
    else
        n = -1;

    if (n < 0)
        snprintf (tls->strerror_buffer, sizeof tls->strerror_buffer -1,
                 "[w32err=%d]", err);
    return tls->strerror_buffer;
}
#endif /*HAVE_W32CE_SYSTEM*/

/* Entry point called by the DLL loader. */

```

```

#ifdef DLL_EXPORT
int WINAPI
DllMain (HINSTANCE hinst, DWORD reason, LPVOID reserved)
{
    struct tls_space_s *tls;
    (void)reserved;
    (void)hinst;

    switch (reason)
    {
    case DLL_PROCESS_ATTACH:
        tls_index = TlsAlloc ();
        if (tls_index == TLS_OUT_OF_INDEXES)
            return FALSE;
#ifdef _GPG_ERR_HAVE_CONSTRUCTOR
        /* If we have not constructors (e.g. MSC) we call it here. */
        _gpg_w32__init_gettext_module ();
#endif
        /* falltru. */
    case DLL_THREAD_ATTACH:
        tls = LocalAlloc (LPTR, sizeof *tls);
        if (!tls)
            return FALSE;
        tls->gt_use_utf8 = 0;
        TlsSetValue (tls_index, tls);
        if (reason == DLL_PROCESS_ATTACH)
        {
            real_init ();
        }
        break;

    case DLL_THREAD_DETACH:
        tls = TlsGetValue (tls_index);
        if (tls)
            LocalFree (tls);
        break;

    case DLL_PROCESS_DETACH:
        tls = TlsGetValue (tls_index);
        if (tls)
            LocalFree (tls);
        TlsFree (tls_index);
        break;

    default:
        break;
    }
}

```



```
return TRUE;
}
#endif /*DLL_EXPORT*/

#endif /*HAVE_W32_SYSTEM*/
```

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## 1.138 libnet-ssleay-perl 1.65

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# 1.139 libnewt 0.52.18

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

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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.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

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

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

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

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

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

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

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That's all there is to it!

# 1.140 libnewt-python 0.52.18

## 1.140.1 Available under license :

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

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

Because of this blurred distinction, using the ordinary General

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

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

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

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

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

root function must still compute square roots.)

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THE BASIC LIBRARY FUNCTIONS

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

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

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

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

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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.

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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.

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

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

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

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

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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## 1.148 libselinux 2.4

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

to use the modified definitions.)

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

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## 1.152 libusb-compat 0.1.5

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# 1.153 libusb1 1.0.19

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## 1.154 libx11 1.6.3

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>  
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for their continuing work on the DVB driver

Michael Holz <kju@debian.org>  
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Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>  
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Wolfram Joost <dbox2@frokaschwei.de>  
...and all the other dbox2 people  
for many bugfixes in the generic DVB Core, frontend drivers and  
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>  
for many bugfixes

Andrew de Quincey <adq\_dvb@lidskialf.net>  
for the tda1004x frontend driver, and various bugfixes

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Augusto Cardoso <augusto@carhil.net>  
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>  
for his work on the budget drivers, the demux code,  
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>  
for his work on calculating and checking the crc's for the  
TechnoTrend/Hauppage DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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Wilson Michaels <wilsonmichaels@earthlink.net>  
for the lgt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org>  
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>  
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Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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```
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```
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# 1.161 linux-yocto 4.1.8

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holz <kju@debian.org>  
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>  
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Wolfram Joost <dbox2@frokaschwei.de>  
...and all the other dbox2 people  
for many bugfixes in the generic DVB Core, frontend drivers and  
their work on the dbox2 port of the DVB driver

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for many bugfixes

Andrew de Quincey <adq\_dvb@lidskialf.net>  
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>  
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Augusto Cardoso <augusto@carhil.net>  
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>  
for his work on the budget drivers, the demux code,  
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>  
for his work on calculating and checking the crc's for the  
TechnoTrend/Hauppage DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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Wilson Michaels <wilsonmichaels@earthlink.net>  
for the lgdt330x frontend driver, and various bugfixes

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Taylor Jacob <rtjacob@earthlink.net>  
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Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.162 log4j2 2.5

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```

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(at your option) any later version.
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```
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```

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```
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interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.
```

```
signature of Ty Coon, 1 April 1989
```

```
Ty Coon, President of Vice
```

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```
LSB version query program (lsb_release) by Dominique Massonie
(mdomi@users.sourceforge.net)
```

This program forms part of the required functionality of the LSB (Linux Standard Base) specification.

The program queries the installed state of the distribution to display certain properties such as the version of the LSB against which the distribution claims compliance as well. It can also attempt to display the name and release of the distribution along with an identifier of who produces the distribution.

# 1.165 Isbinitscripts 9.64

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```

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```
Gnomovision version 69, Copyright (C) year 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  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.166 Isof 4.89

## 1.166.1 Available under license :

Making and Installing Isof 4

```
*****  
| The latest release of Isof is always available via anonymous ftp |  
| from Isof.itap.purdue.edu. Look in pub/tools/unix/Isof.      |  
*****
```

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HP-UX  
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Linux  
NetBSD  
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Caldera OpenUNIX  
SCO OpenServer  
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=====  
Pre-built Lsof Binaries  
=====

Avoid using pre-built Lsof binaries if you can; build your own instead.

I do not support Lsof binaries built and packaged by third parties nor Lsof binaries built from anything but the latest Lsof revision. (See the Bug Reports section for more information on the details of Lsof support.)

One important reason for those support restrictions is that when Lsof is built its Configure script tunes Lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, Lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 versus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is built.

```
=====
Making Lsof
=====
```

```
$ cd <lsof source directory>
$ ./Configure <your dialect's abbreviation>
$ make
```

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution for information about using make command invocations and environment variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However, it must be configured specifically for each dialect. Configuration is done in three ways: 1) by changing definitions in the machine.h header file of the UNIX dialect of interest; 2) by defining environment variable values prior to calling Configure (see the 00XCONFIG file, the Environment Variables and Environment Variables Affecting the Configure Script sections of this file); and 3) by running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The AFSConfig script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution. Configure calls Inventory after it has accepted the dialect

abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the dialect for which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect sub-directory to propagate kernel build options to the dialect Makefile. This is done for only a few dialects -- e.g., DC/OSx, and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to inspect or edit this Makefile to make it conform to local conventions. If you want the Makefile to install lsof and its man page, you will have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the following table. Alternative abbreviations are indicated by a separating `|'. For example, for SCO OpenServer you can use either the `osr" or the `sco" abbreviation:

```
$ Configure osr
  or
$ Configure sco
```

Abbreviations UNIX Dialect

-----

```
aix  IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
aixgcc IBM AIX 5.[12] and 5.3-ML1 using gcc
darwin Apple Darwin 7.x and 8.x for Power Macintosh systems
decosf DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
```

digital\_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1  
 du Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1  
 freebsd FreeBSD 4.x, 4.1x, 5.x and [67].x  
 hpux HP-UX 11.00, 11.11 and 11.23, using HP's C  
 Compiler, both /dev/kmem-based and PSTAT-based  
 hpuxgcc HP-UX 11.00, 11.11 and 11.23, using gcc, both  
 /dev/kmem-based and PSTAT-based  
 linux Linux 2.1.72 and above for x86-based systems  
 netbsd NetBSD 1.[456], 2.x and 3.x  
 next NEXTSTEP 3.[13]  
 nextstep NEXTSTEP 3.[13]  
 ns NEXTSTEP 3.[13]  
 nxt NEXTSTEP 3.[13]  
 openbsd OpenBSD 2.[89] and 3.[0-9]  
 openstep OPENSTEP 4.x  
 os OPENSTEP 4.x  
 osr SCO OpenServer Release 5.0.6, using the C compiler  
 from the SCO developer's kit  
 orgcc SCO OpenServer Release 5.0.6, using gcc  
 osr6 SCO Openserver 6.0.0, using the SCO C compiler  
 sco SCO OpenServer Release 5.0.6, using the C compiler  
 from the SCO developer's kit  
 scogcc SCO OpenServer Release 5.0.6, using gcc  
 solaris Solaris 2.x, 7, 8, 9 and 10 using gcc  
 solarisc Solaris 2.x, 7, 8, 9 and 10 using Sun's cc  
 tru64 Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1  
 unixware SCO|Caldera UnixWare 7.1.4  
 uw SCO|Caldera UnixWare 7.1.4

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options via the Customize script (See the The Customize Script section.), use the make command to build lsof -- e.g.,

```
$ make
```

#### Other Configure Script Options

```
=====
```

There are three other useful options to the Configure script besides the dialect abbreviation:

-clean      may be specified to remove all traces of



a dialect configuration, including the Makefile, symbolic links, and library files.

-h            may be specified to obtain a list of  
-help        Configure options, including dialect  
              abbreviations.

-n            may be specified to stop the Configure  
              script from calling the Customize and  
              Inventory scripts.

Caution: -n also suppresses the AFSSConfig  
step.

## Environment Variables

=====

Lsof configuration, building, and execution may be affected by environment variable settings. See the Definitions That Affect Compilation section in the 00PORTING file, the General Environment Variables section in the 00XCONFIG file, the Dialect-Specific Environment Variables section in the 00XCONFIG file, and the Environment Variables Affecting the Configure Script section of this file for more information.

Note in the General Environment Variables section of the 00XCONFIG file that there are five environment variables that can be used to pre-define values in lsof's -v output: LSOF\_BLDGMT, LSOF\_HOST, LSOF\_LOGNAME, LSOF\_SYSINFO, and LSOF\_USER.

## Security

=====

If the symbol HASSECURITY is defined, a security mode is enabled, and lsof will allow only the root user to list all open files.

Non-root users may list only open files whose processes have the same user ID as the real user ID of the lsof process (the one that its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list anyone else's open socket files, provided their listing is enabled with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY is not defined. (When HASSECURITY is not defined, the definition

of HASNOSOCKSECURITY has no meaning.) You can enable the security mode by defining HASSECURITY in the Makefile or in the machine.h header file for the specific dialect you're using -- e.g. dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its work, gives you the opportunity to define HASSECURITY and HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY had when lsof was built, reporting:

```
"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
defined;
```

```
"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;
```

```
"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)
```

You should carefully consider the implications of using the default security mode. When lsof is compiled in the absence of the HASSECURITY definition, anyone who can execute lsof may be able to see the presence of all open files. This may allow the lsof user to observe open files -- e.g., log files used to track intrusions -- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device cache file in the home directory of the real user ID executing lsof. There are other options for constructing the device cache file path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache file path construction in great detail. It tells how to disable the various device cache file path options, or how to disable the entire device cache file feature by removing the HASDCACHE definition from the dialect's machine.h file. There is also information on the device cache file feature in the 00FAQ file. (The 00DCACHE and 00FAQ files are part of the lsof distribution package.)

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the compile-time options related to the device cache file. (See The Customize Script section.)

Since lsof may need setgid or setuid-root permission (See the Setgid Lsof Dialects and Setuid-root Lsof Dialects sections.), its security should always be viewed with skepticism. Lest the setgid and setuid-root permissions allow lsof to read kernel name list or memory files, declared with the -k and -m options, that the lsof user can't normally access, lsof uses access(2) to establish its real user's authority to read such files when it can't surrender its power before opening them. This change was added at the suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has gained access to the kernel's memory devices. There are exceptions to this rule, and some lsof implementations need to run setuid-root. (The Setgid Lsof Dialects and Setuid-root Lsof Dialects sections contains a list of lsof implementations and the permissions recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the risks that lsof presents and restrict access to it according to your circumstances and judgement.

#### Run-time Warnings

=====

Lsof can issue warning messages when it runs -- e.g., about the state of the device cache file, about an inability to access an NFS file system, etc. Issuance of warnings are enabled by default in the lsof distribution.

Issuance or warnings may be disabled by default by defining WARNINGSTATE in the dialect's machine.h. The Customize script may also be used to change the default warning message issuance state. (See The Customize Script section.)

The ``-w" option description of the ``-h" option (help) output will indicate the default warning issuance state. Whatever the state may be, it can be reversed with ``-w".

#### Device Access Warnings

=====

When lsof encounters a /dev (or /devices) directory, one of its

sub-directories, or one of their files that it cannot access with `opendir(3)` or `stat(2)`, it issues a warning message and continues. Lsof will be more likely to issue such a warning when it has been installed with `setgid(<some group name>)` permission; it won't have trouble if it has been installed with `setuid(root)` permission or is being run under the root login.

The lsof caller can inhibit or enable the warning with the `-w` option, depending on the issuance state of run-time warnings. (See the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device information from a device cache file that it has built and believes to be current or when warning message issuance is disabled by default. (See the "Caches -- Name and Device" section for more information on the device cache file.)

The lsof builder can inhibit the warning by disabling the definition of `WARNDEVACCESS` in the dialect's `machine.h` or disable all warnings by defining `WARNINGSTATE`. `WARNDEVACCESS` is defined by default for most dialects. However, some dialects have some device directory elements that are private -- e.g., HP-UX -- and it is more convenient for the lsof user if warning messages about them are inhibited.

Output from lsof's `-h` option indicates the status of `WARNDEVACCESS`. If it was defined when lsof was compiled, this message will appear:

```
/dev warnings = enabled
```

If `WARNDEVACCESS` was not defined when lsof was compiled, this message will appear instead:

```
/dev warnings = disabled
```

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the `WARNDEVACCESS` definition. (See The Customize Script section.)

## NFS Blocks

=====

Lsof is susceptible to NFS blocks when it tries to `lstat()` mounted file systems and when it does further processing -- `lstat()` and `readlink()` -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the `lstat()` and `readlink()` functions in a child process, which

returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited by default or with the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

#### Caches -- Name and Device

=====

Robert Ehrlich suggested that lsof obtain path name components for open files from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent

running time. Lsof does that, too.

In the default distribution the device cache file is stored in `.lsof_hostname`, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, `hostname`, is the first component of the host's name returned by `gethostname(2)`. If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity checks, including the use of a 16 bit CRC. It also tries to sense changes in `/dev` (or `/devices`) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate `00DCACHE` file of the lsof distribution.

#### Raw Sockets

=====

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

#### Other Compile-time Definitions

=====

The `machine.h` and `dlsof.h` header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the `00PORTING` file of the lsof distribution for their descriptions. (Also see The Customize Script section.)

#### The AFSConfig Script

=====

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file; version, AFSVersion. Once these values have been recorded, Configure can be told to skip the calling of AFSConfig by specifying its (Configure's) -n option.

### The Inventory Script

=====

The lsof distribution contains a script, called Inventory, that checks the distribution for completeness. It uses the file 00MANIFEST in the distribution as a reference point.

After the Configure script has accepted the dialect abbreviation, it normally calls the Inventory script to make sure the distribution is complete.

After Inventory has run, it creates the file ".ck00MAN" in the top-level directory to record for itself the fact that the inventory has been checked. Should Inventory be called again, it senses this file and asks the caller if another check is in order, or if the check should be skipped.

The -n option may be supplied to Configure to make it bypass the calling of the Inventory script. (The option also causes Configure to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv". Configure avoids calling the Inventory script when ".neverInv" exists.

### The Customize Script

=====

Normally when the Configure script has finished its work, it calls another shell script in the lsof distribution called Customize. (You can tell Configure to bypass Customize with its -n option.)

Customize leads you through the specification of these important compile-time definitions for the dialect's machine.h header file:

HASDCACHE device cache file control  
 HASENVDC device cache file environment  
 variable name  
 HASPERSDC personal device cache file path  
 format  
 HASPERSDCPATH name of environment variable that  
 provides an additional component  
 of the personal device cache file  
 path  
 HASSYSDC system-wide device cache file path  
 HASKERNIDCK the build-time to run-time kernel  
 identity check  
 HASSECURITY the security option  
 HASNOSOCKSECURITY the open socket listing option whe  
 HASSECURITY is defined  
 WARNDEVACCESS /dev (or /devices) warning message  
 control  
 WARNINGSTATE warning message issuance state

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is applied to a newly configured lsof source base -- i.e., the machine.h header file has not been previously modified by the Customize script. If you have previously configured lsof, and want to rerun the Customize script, I recommend you clean out the previous configuration and create a new one:

```
$ Configure -clean
$ Configure <dialect_abbreviation>
...
Customize in response to the Customize script prompts.
```



## Cautions

=====

Lsof is a tool that is closely tied to the UNIX operating system version. It uses header files that describe kernel structures and reads kernel structures that typically change from OS version to OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION, ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by architecture type.

The bottom line is use lsof where you built it. If you intend to use a common lsof binary on multiple systems, make sure all systems run exactly the same OS version and have exactly the same patches.

## Warranty

=====

Lsof is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary servicing, repair, or correction.

## License

=====

Lsof has no license. Its use and distribution are subject to these terms and conditions, found in each lsof source file. (The copyright year in or format of the notice may vary slightly.)

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\*

\* Written by Victor A. Abell

\*

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## Bug Reports

=====

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report, please do these things:

- \* Make sure you try the latest lsof revision.
- + Download the latest revision from:  
  
<ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof>
- + Verify the signatures of what you have downloaded;
- + While connected to lsof.itap.purdue.edu, check for patches:

<ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches>

+ If patches exist, install them in the latest revision you just downloaded. Then build the latest revision and see if it fixes your bug.

\* If you're having trouble compiling lsof with gcc, try the UNIX dialect vendor's compiler. I don't have access to gcc on all test systems, so my support for it is hit-and-miss, and so is my ability to respond to gcc compilation problem reports.

\* Check the lsof frequently asked questions file, 00FAQ, to see if there's a question and answer relevant to your problem.

\* Make sure you're running the lsof you think you are by checking the path to it with `which(1)`. When in doubt, use an absolute path to lsof. Make sure that lsof binary has sufficient permissions to do what you ask, including internal permissions given it (e.g., restrictions on what files lsof may report for whom) during its build.

When you send a bug report, make sure you include output from your running of lsof's Configure script. If you were able to compile a running lsof, please also include:

\* Output from `which(1)` that shows the absolute path to the lsof binary in question;

\* Output from running lsof with its `-h` and `-v` options at lsof's absolute path;

\* Output from `"ls -l"` directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the compiler error output; identification of the lsof revision you're using (contents of the lsof version.c file); identification of your system (full `uname` output or output from whatever other tool identifies the system); and compiler identification (e.g., `gcc -v` output).

Either set of output will help me understand how lsof was configured and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at [<abe@purdue.edu>](mailto:abe@purdue.edu). Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

## The 00FAQ File

=====

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

## The lsof-l Mailing List

=====

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

## Field Output Example Scripts

=====

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are located in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

## Field Output C Library

=====

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

## Testing Lsof

=====

Lsof has an automated test suite in the tests/ sub-directory that can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic tests that should run on all dialects; standard tests that should run on all dialects; and optional tests that may not run on all

dialects or may need special resources to run. See 00TEST for more information.)

CAUTION!!! Before you attempt to use the test suite make sure that the lsof you want to test can access the necessary kernel resources -- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
$ cd tests
$ make test
  or $ make std
  or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make opt
  or $ make optional
```

It's possible to execute individual tests, too. See the 00TEST file of this distribution for more information on the tests, what they do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one in the parent directory of /tests, too. See 00TEST for information about using the LT\_LSOF\_PATH environment variable to do that.

```
=====
Dialect Notes
=====
```

## AFS

===

Lsof recognizes AFS files on the following combinations of UNIX dialect and AFS versions:

AIX 4.1.4 (AFS 3.4a)  
Linux 1.2.13 (AFS 3.3)  
NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)  
Solaris 2.6 (AFS 3.4a)  
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX 10.10 and AFS 3.4a -- and probably won't even compile there. Often when a UNIX dialect version or AFS version changes, the new header files come into conflict, causing compiler objections.

## AIX

===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1], 4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be used to compile lsof on AIX 4.1 and below because of kernel structure alignment differences between it and xlc.) Gcc results sometimes depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been sparsely tested with varying degrees of success: it has been reported to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX 5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX 5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the bit size of the kernel of Power architecture AIX 5.1 systems. Lsof binaries built for 32 and 64 bit kernels are not interchangeable. See 00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv" for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv" to determine the AIX version.

When Configure must use `uname -rv` on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the ``4'` of `4.1.4`". If your AIX less than 5 system lacks lacks an executable `oslevel`, I suggest you edit the Configure-produced Makefile and complete the `_AIXV` definition in the `CFGF` string.

By default `lsof` avoids using the kernel's `readx()` function, causing it to be unable to report information on some text and library file references. The ```-X`" option allows the `lsof` user to ask for the information `readx()` supplies.

`lsof` avoids `readx()` to avoid the possibility of triggering a kernel problem, known as the Stale Segment ID kernel bug. Kevin Ruderman reported this bug to me. The bug shows up when the kernel's `dir_search()` function hangs, hanging the application process that called it so completely that the application process can neither be killed nor stopped. The hang is the consequence of another process (perhaps `lsof`) making legitimate use of the kernel's `readx()` function to access the kernel memory that `dir_search()` is examining. IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the `00FAQ` file of the `lsof` distribution. There you will find a description of the Stale Segment ID bug, the APAR on it, and a discussion of the sequence of events that exposes it.

I added the ```-X`" function so you can tell `lsof` to use `readx()`, but if you use ```-X`", you should be alert to its possibly serious side effects. Although `readx()` is normally disabled, its state is controlled with the `HASXOPT`, `HASXOPT_ROOT`, and `HASXOPT_VALUE` definitions in `dialects/aix/machine.h`, and you can change its default state by changing those definitions. You can also change `HASXOPT_ROOT` via the `Customize` script.

You can also compile `lsof` with `readx()` use permanently enabled or disabled -- see the comments about the definitions in the `dialects/aix/machine.h` header file. You may want to permanently disable `lsof`'s use of `readx()` if you plan to make `lsof` publicly executable. You can also restrict `-X` to processes whose real UID is root by defining `HASXOPT_ROOT`.

I have never seen `lsof` cause the Stale Segment ID bug to occur and haven't had a report that it has, but I believe there is a possibility it could.

AFS support for AIX was added with help help from Bob Cook and Jan Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart and Tom Weaver provided AIX 4.3 technical assistance. Niklas Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2 test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and 5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and John Jackson of Purdue provided an AIX 5.3 test system.

#### Apple Darwin =====

The Apple Darwin port was provided by Allan Nathanson for version 1.2. Allan also arranged for access to a test system for maintenance and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

#### BSDI BSD/OS =====

As of lsof revision 4.77 support for BSDI BSD/OS has been discontinued. Lsof revision 4.76 with BSDI BSD/OS support may be found on [lsof.itap.purdue.edu](http://lsof.itap.purdue.edu) in `pub/tools/unix/lsof/src`.

#### DEC OSF/1, Digital UNIX, Tru64 UNIX =====

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands, Ron Young and Steve Wilson have kindly provided test systems. Jeffrey Mogul has provided technical assistance. Dave Morrison and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof can locate all the open files of an ADVFS/MSFS file system when its path is specified, provided the file system is listed in `/etc/fstab` with an ```advfs"` type. (This `/etc/fstab` caveat applies



only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX, using code provided by David Brock, lsof 4.20 and above can locate ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof revision 4.74. Hence, the lsof documentation has dropped the claim that it works there. For a distribution of lsof 4.74 that was tested on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

## FreeBSD

=====

Bill Bormann of Purdue University provided access to several FreeBSD test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael Haro, Kurt Jaeger, and William McVey have also provided FreeBSD test systems.

The FreeBSD distribution header files are augmented by header files in the dialects/freebsd/include directory.

David O'Brien maintains the lsof FreeBSD port package.

## HP-UX

=====

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier; and PSTAT for HP-UX 11.11 and later. The lsof Configure script will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT x.25 socket support.

Richard Allen provided HP-UX 10.x and 11.x test systems, as did Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11 test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It depends on privately developed kernel structure definitions. (See ../dialects/hpux/hpux11 for the header files making the definitions.) Those header files and their definitions will not be updated by HP-UX 11.00 patches, making it likely that any patch changing a kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with gcc, but you must have a gcc compiler capable of producing 64 bit executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid. I am indebted to the vision of HP for providing an lsof kernel API through the PSTAT implementation. Specifically I appreciate the help of HP staff members Carl Davidson, Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof possible.

## IPv6

====

Lsof has IPv6 support that has been tested for these UNIX dialects: AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6 implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6 support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64 Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll see if it can be supported by lsof.

## Linux

=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF form names in /System.map, Marty Leisner and Keith Parks have helped test many lsof revisions. Marty has provided valuable suggestions, Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,

the lsof Configure script runs a test program that must have permission to read /dev/kmem. The test determines if the lseek() function properly handles kernel offsets, which appear to be negative because their high order bit is set. If the lseek() test reveals a faulty lseek(), Configure activates the use of a private lseek() function for kernel offset positioning. See the Linux problems section of the 00FAQ file of the lsof distribution for more information.

## NetBSD

=====

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports. Paul has provided test systems. Ray Phillips provided a NetBSA Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof is compiled using the dialect sources it shares with OpenBSD in the n+obsd dialect sub-directory.

## NEXTSTEP and OPENSTEP

=====

Virtual memory header files that allow lsof to display text references were derived from the contents of /usr/include/vm of NEXTSTEP 2.0. NeXT did not ship the virtual memory header files with other NEXTSTEP or OPENSTEP versions.

You may use the RC\_FLAGS environment variable to declare compiler options outside the Makefile. A common use of this variable is to define the architecture types to be included in a "fat" executable. See the comments in dialects/next/Makefile for an example.

## OpenBSD

=====

David Mazieres has provided OpenBSD test systems. The OpenBSD dialect version of lsof is compiled using the dialect sources it shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzuber (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD 2.3 for the pmax architecture (decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports

revision 4.76 worked on OpenBSD 3.8.

### Pyramid DC/OSx and Reliant UNIX

=====

As of lsof revision 4.52 support for all Pyramid dialects has been discontinued. Lsof revision 4.51 with Pyramid support may be obtained upon request. Send the request to [abe@purdue.edu](mailto:abe@purdue.edu).

These two UNIX dialects are very similar and share dialect-specific source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that I haven't found a convenient way to suppress. You can ignore warning messages about casts and conversions that lose bits. The message "warning: undefining \_\_STDC\_\_" is intentionally caused by the lsof MkKernOpts configuration script to suppress warning messages about cast and conversion problems in standard system header files, such as `<stdio.h>` and `<string.h>`.

Bruce Beare and Kevin Smith provided test systems.

### Caldera OpenUNIX

=====

Larry Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier provided technical assistance, along with these people from Caldera: Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, [lsof.itap.purdue.edu](ftp://lsof.itap.purdue.edu), in `pub/tools/unix/lsof/OLD/src`.

### SCO OpenServer

=====

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies of SCO OpenServer and the SCO OpenServer Development System 3.0 and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson

provided version 5.0 and gave technical advice for porting lsof to it. Bela provided the 5.0.4 changes. D. Chris Daniels provided a 5.0.4 test system, Lee Penn provided one for 5.0.5, and John Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO OpenServer Development System releases. The Configure script will sense its absence and substitute an equivalent from the BSD distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file it includes are located in the dialects/os/include sub-directory tree.

To compile lsof from its distribution sources you must have the TCP/IP and NFS headers in /usr/include. While those are optional OpenServer packages, I have access to no system that doesn't have them, so I'm unable to build lsof for such a configuration. However, it should be possible to modify the lsof Configure script and sources so lsof would compile and work without those optional packages.

If you have an OpenServer system configured without the TCP/IP and NFS packages, and want to tackle the job of building lsof for it, contact me via e-mail at <abe@purdue.edu>. I'll identify the Configure script, header file, and source file changes you will need to make. (Caution: this is not a simple task, or I would have already done it.)

The optional osrgcc and scogcc Configure abbreviations construct Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0. Hence there is a separate Configure abbreviation for it, "osr6". Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare

=====

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and Matthew Thurmaier provided test systems. Bela Lubkin provided technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10

=====

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris 2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler under Solaris. If you want to use the Sun compiler, use the solariscc Configure abbreviation. If you use a gcc version less than 2.8 on Solaris, make sure the gcc-specific includes have been updated for your version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun WorkShop or Forte C compiler version that supports the "-xarch=v9" flag -- usually 5.0 or greater. Gcc versions 2.95 and above \*may\* be configured and built for 64 bit support, but it takes some extra work, the resulting compiler may be fragile, and the gcc developers discourage it. I've built 64 bit capable gcc compilers for Solaris 7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working lsof executables with them. More information on 64 bit gcc for Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute the ZFS kernel structure definition header files. The lsof Configure script and source code use some risky work-arounds. ZFS file system support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x ports. Casper Dik and Gerry Singleton consulted and provided valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland, Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris 2.5, 2.6, 7, 8, and 9.

John Dzuberger provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix  
=====

As of lsof revision 4.52 support for Ultrix is no longer available, because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me with this port.

DECnet support was added to Ultrix lsof with the help of John Beacom, who kindly provided a test system. The Configure script decides that DECnet support is available if /usr/lib/libdnet.a and /usr/include/netdnet/dn.h exist and are readable.

#### Veritas VxFS and VxVM

=====

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX dialects. Consult the lsof Configure script for the specific dialect, and consult the lsof dialect-specific source files for the UNIX dialect of interest. Veritas support will usually be found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted with shell commands, lsof doesn't use it. Instead, when lsof supports Veritas, the Configure script will form compile-time definitions starting with HASVXFS. Check the lsof 00PORTING documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header files be installed -- e.g., in /usr/include/sys/fs. (The location will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be found in the lsof 00DIST file. (The ChangeLog file points to 00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test systems.

=====

#### User-contributed Dialect Support

=====

There are some user-contributed dialect versions of lsof; more information on them can be found at:

<ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib>

Check the 00INDEX file there for details.

=====  
Dialects No Longer Supported  
=====

Because I don't have access to test systems, these UNIX dialects are no longer supported by lsof:

CDC EP/IX  
/dev/kmem-based Linux  
MIPS RISC/os  
Motorola V/88  
Pyramid DC/OSx  
Pyramid Reliant UNIX  
Sequent DYNIX  
SGI IRIX  
SunOS 4.x  
Ultrix  
UnixWare below 7.0

Remnants of the support lsof once provided for these dialects may be found in:

<ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects>

=====  
Installing Lsof  
=====

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description



of what actions you might add to the install rule. The description will suggest the possible modes, ownerships, permissions, and destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that its effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be installed with modes that make its effective user identifier root when it runs -- i.e., it must be setuid-root. If lsof must be installed setuid-root (only the AIX 5L, PSTAT-based HP-UX, and /proc-based Linux, ports need such power.), then access to memory devices is automatic (or not needed in the case of /proc-based Linux).

Your choice of permissions for lsof may also be affected by your desire to allow anyone to use it or your need to restrict its usage to specific individuals. You will have to be guided by local policy and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also open to choice. A traditional place for a tool like lsof is /usr/local/etc, but recent changes in directory structure organization suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location for the lsof executable -- it usually is a shared executable, requiring access to shared libraries. Thus, locations like /sbin or /usr/sbin are probably unsuitable.

Once you've chosen a location for the executable you may find that

the location for the man page follows -- e.g., if the executable goes in /usr/local/etc, then the man page goes in /usr/local/man. If the executable location doesn't imply a location for the man page, you'll have to let local custom guide you.

#### Setuid-root Lsof Dialect Versions

=====

These dialect versions should be installed with setuid-root permission -- i.e., the lsof binary should be owned by root and its setuid execution bit (04000) should be set.

AIX 5L and above for full use of the -X option  
Apple Darwin 8.x for Power Macintosh systems  
PSTAT-based HP-UX 11.11 and 11.23  
/proc-based Linux (generally 2.1.72 and above)

#### Setgid Lsof Dialect Versions

=====

These dialect versions should be installed with setgid permission, owned by the group that can read kernel memory devices such as /dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may be another mechanism (e.g., under AIX or Solaris 8) you can use to grant read permission to the kernel memory devices.

AIX 4.1.[45], 4.2[.1], and 4.3[.123]  
Apple Darwin 7.x for Power Macintosh systems  
DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]  
FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x and [67].x  
/dev/kmem-based 11.00  
NetBSD 1.[456], 2.x and 3.x  
NEXTSTEP 3.[13]  
OpenBSD 2.[89] and 3.[0-9]  
OPENSTEP 4.x  
Caldera OpenUNIX 8  
SCO OpenServer 5.0.[46]  
SCO UnixWare 7.0 and 7.1.[0134]  
Solaris 2.6, 8, 9 and 10  
Ultrix 4.2 (no longer available)

=====

#### Porting Lsof 4 to a New UNIX Dialect

=====

If you're brave enough to consider this, look at the 00PORTING

file. Please contact me before you start. I might be able to help you or even do the port myself.

Don't overlook the contrib/ directory in pub/tools/unix/lsof on my ftp server, lsof.itap.purdue.edu. It contains user-contributed ports of lsof to dialects I don't distribute, because I can't test new revisions of lsof on them.

=====  
Quick Start to Using lsof  
=====

For information on how to get started quickly using lsof, consult the 00QUICKSTART file of the lsof distribution. It cuts past the formal density of the lsof man page to provide quick examples of using lsof to solve common open file display problems.

=====  
Cross-configuring lsof  
=====

Using environment variables it is possible to Configure (and possibly build) lsof for one UNIX dialect on a different one -- e.g., you are running Configure on a Linux 2.3 system and you want to Configure and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion of how to do this.

=====  
Environment Variables Affecting the Configure Script  
=====

Configure script actions can be modified by introducing values to the script via environment variables. In many cases the environment variable values take the place of test operations the Configure script makes.

For more information on environment variables that can affect Configure, consult the 00XCONFIG file of the lsof distribution. See the General Environment Variables sections for descriptions of ones that affect all dialects. Consult the Dialect-Specific Environment Variables section for ones that might affect the dialect you are trying to configure.

Vic Abell <abe@purdue.edu>

January 2, 2013

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## 1.167 m4 1.4.17

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

will lead to faster development of free libraries.

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that



you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to use the modified definitions.)

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

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License



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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

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

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- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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## 1.170 mdadm 3.3.4

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## 1.177 net-tools 1.60-26

## 1.177.1 Available under license :

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Version 2, June 1991

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```

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```
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```

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```
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```

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

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## 1.178 netbase 5.3

### 1.178.1 Available under license :

This package was created by Peter Tobias [tobias@et-inf.fho-empden.de](mailto:tobias@et-inf.fho-empden.de) on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <[ajt@debian.org](mailto:ajt@debian.org)> until 2001.

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## 1.179 nettle 3.1.1

### 1.179.1 Available under license :

```
/* serpent-set-key.c
```

The serpent block cipher.

For more details on this algorithm, see the Serpent website at <http://www.cl.cam.ac.uk/~rja14/serpent.html>

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\*/

/\* This file is derived from cipher/serpent.c in Libgcrypt v1.4.6. The adaption to Nettle was made by Simon Josefsson on 2010-12-07 with final touches on 2011-05-30. Changes include replacing libgcrypt with nettle in the license template, renaming serpent\_context to serpent\_ctx, renaming u32 to uint32\_t, removing libgcrypt stubs and selftests, modifying entry function prototypes, using FOR\_BLOCKS to iterate through data in encrypt/decrypt, using LE\_READ\_UINT32 and LE\_WRITE\_UINT32 to access data in encrypt/decrypt, and running indent on the code. \*/

```
#if HAVE_CONFIG_H
#include "config.h"
#endif
```

```
#include <assert.h>
#include <limits.h>
```

```
#include "serpent.h"
```

```
#include "macros.h"
#include "serpent-internal.h"
```

```
/* Magic number, used during generating of the subkeys. */
#define PHI 0x9E3779B9
```

```
/* These are the S-Boxes of Serpent. They are copied from Serpents reference implementation (the optimized one, contained in `floppy2') and are therefore:
```

Copyright (C) 1998 Ross Anderson, Eli Biham, Lars Knudsen.

To quote the Serpent homepage

(<http://www.cl.cam.ac.uk/~rja14/serpent.html>):

"Serpent is now completely in the public domain, and we impose no restrictions on its use. This was announced on the 21st August at the First AES Candidate Conference. The optimised implementations in the submission package are now under the GNU PUBLIC LICENSE (GPL), although some comments in the code still say otherwise. You are welcome to use Serpent for any application." \*/

```
/* FIXME: Except when used within the key schedule, the inputs are not
used after the substitution, and hence we could allow them to be
destroyed. Can this freedom be used to optimize the sboxes? */
```

```
#define SBOX0(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t05, t06, t07, t08, t09; \
    type t11, t12, t13, t14, t15, t17, t01; \
    t01 = b ^ c ; \
    t02 = a | d ; \
    t03 = a ^ b ; \
    z = t02 ^ t01; \
    t05 = c | z ; \
    t06 = a ^ d ; \
    t07 = b | c ; \
    t08 = d & t05; \
    t09 = t03 & t07; \
    y = t09 ^ t08; \
    t11 = t09 & y ; \
    t12 = c ^ d ; \
    t13 = t07 ^ t11; \
    t14 = b & t06; \
    t15 = t06 ^ t13; \
    w = ~ t15; \
    t17 = w ^ t14; \
    x = t12 ^ t17; \
} while (0)
```

```
#define SBOX1(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t07, t08; \
    type t10, t11, t12, t13, t16, t17, t01; \
    t01 = a | d ; \
    t02 = c ^ d ; \
    t03 = ~ b ; \
    t04 = a ^ c ; \
    t05 = a | t03; \
    t06 = d & t04; \
    t07 = t01 & t02; \
    t08 = b | t06; \
```

```

y = t02 ^ t05; \
t10 = t07 ^ t08; \
t11 = t01 ^ t10; \
t12 = y ^ t11; \
t13 = b & d ; \
z = ~ t10; \
x = t13 ^ t12; \
t16 = t10 | x ; \
t17 = t05 & t16; \
w = c ^ t17; \
} while (0)

```

```

#define SBOX2(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t05, t06, t07, t08; \
    type t09, t10, t12, t13, t14, t01; \
    t01 = a | c ; \
    t02 = a ^ b ; \
    t03 = d ^ t01; \
    w = t02 ^ t03; \
    t05 = c ^ w ; \
    t06 = b ^ t05; \
    t07 = b | t05; \
    t08 = t01 & t06; \
    t09 = t03 ^ t07; \
    t10 = t02 | t09; \
    x = t10 ^ t08; \
    t12 = a | d ; \
    t13 = t09 ^ x ; \
    t14 = b ^ t13; \
    z = ~ t09; \
    y = t12 ^ t14; \
} while (0)

```

```

#define SBOX3(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t07, t08; \
    type t09, t10, t11, t13, t14, t15, t01; \
    t01 = a ^ c ; \
    t02 = a | d ; \
    t03 = a & d ; \
    t04 = t01 & t02; \
    t05 = b | t03; \
    t06 = a & b ; \
    t07 = d ^ t04; \
    t08 = c | t06; \
    t09 = b ^ t07; \
    t10 = d & t05; \
} while (0)

```



```

t11 = t02 ^ t10; \
z = t08 ^ t09; \
t13 = d | z ; \
t14 = a | t07; \
t15 = b & t13; \
y = t08 ^ t11; \
w = t14 ^ t15; \
x = t05 ^ t04; \
} while (0)

```

```

#define SBOX4(type, a, b, c, d, w, x, y, z) \
do { \
type t02, t03, t04, t05, t06, t08, t09; \
type t10, t11, t12, t13, t14, t15, t16, t01; \
t01 = a | b ; \
t02 = b | c ; \
t03 = a ^ t02; \
t04 = b ^ d ; \
t05 = d | t03; \
t06 = d & t01; \
z = t03 ^ t06; \
t08 = z & t04; \
t09 = t04 & t05; \
t10 = c ^ t06; \
t11 = b & c ; \
t12 = t04 ^ t08; \
t13 = t11 | t03; \
t14 = t10 ^ t09; \
t15 = a & t05; \
t16 = t11 | t12; \
y = t13 ^ t08; \
x = t15 ^ t16; \
w = ~ t14; \
} while (0)

```

```

#define SBOX5(type, a, b, c, d, w, x, y, z) \
do { \
type t02, t03, t04, t05, t07, t08, t09; \
type t10, t11, t12, t13, t14, t01; \
t01 = b ^ d ; \
t02 = b | d ; \
t03 = a & t01; \
t04 = c ^ t02; \
t05 = t03 ^ t04; \
w = ~ t05; \
t07 = a ^ t01; \
t08 = d | w ; \
t09 = b | t05; \
} while (0)

```

```

t10 = d ^ t08; \
t11 = b | t07; \
t12 = t03 | w ; \
t13 = t07 | t10; \
t14 = t01 ^ t11; \
y = t09 ^ t13; \
x = t07 ^ t08; \
z = t12 ^ t14; \
} while (0)

```

```

#define SBOX6(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t07, t08, t09, t10; \
    type t11, t12, t13, t15, t17, t18, t01; \
    t01 = a & d ; \
    t02 = b ^ c ; \
    t03 = a ^ d ; \
    t04 = t01 ^ t02; \
    t05 = b | c ; \
    x = ~ t04; \
    t07 = t03 & t05; \
    t08 = b & x ; \
    t09 = a | c ; \
    t10 = t07 ^ t08; \
    t11 = b | d ; \
    t12 = c ^ t11; \
    t13 = t09 ^ t10; \
    y = ~ t13; \
    t15 = x & t03; \
    z = t12 ^ t07; \
    t17 = a ^ b ; \
    t18 = y ^ t15; \
    w = t17 ^ t18; \
} while (0)

```

```

#define SBOX7(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t08, t09, t10; \
    type t11, t13, t14, t15, t16, t17, t01; \
    t01 = a & c ; \
    t02 = ~ d ; \
    t03 = a & t02; \
    t04 = b | t01; \
    t05 = a & b ; \
    t06 = c ^ t04; \
    z = t03 ^ t06; \
    t08 = c | z ; \
    t09 = d | t05; \
} while (0)

```

```

t10 = a ^ t08; \
t11 = t04 & z ; \
x = t09 ^ t10; \
t13 = b ^ x ; \
t14 = t01 ^ x ; \
t15 = c ^ t05; \
t16 = t11 | t13; \
t17 = t02 | t14; \
w = t15 ^ t17; \
y = a ^ t16; \
} while (0)

/* Key schedule */
/* Note: Increments k */
#define KS_RECURRENCE(w, i, k) \
do { \
    uint32_t _wn = (w)[(i)] ^ (w)[((i)+3)&7] ^ w[(i)+5]&7] \
        ^ w[(i)+7]&7] ^ PHI ^ (k)++; \
    ((w)[(i)] = ROTL32(11, _wn)); \
} while (0)

/* Note: Increments k four times and keys once */
#define KS(keys, s, w, i, k) \
do { \
    KS_RECURRENCE(w, (i), (k)); \
    KS_RECURRENCE(w, (i)+1, (k)); \
    KS_RECURRENCE(w, (i)+2, (k)); \
    KS_RECURRENCE(w, (i)+3, (k)); \
    SBOX##s(uint32_t, w[(i)],w[(i)+1],w[(i)+2],w[(i)+3], \
        (*keys)[0],(*keys)[1],(*keys)[2],(*keys)[3]); \
    (keys)++; \
} while (0)

/* Pad user key and convert to an array of 8 uint32_t. */
static void
serpent_key_pad (const uint8_t *key, unsigned int key_length,
    uint32_t *w)
{
    unsigned int i;

    assert (key_length <= SERPENT_MAX_KEY_SIZE);

    for (i = 0; key_length >= 4; key_length -=4, key += 4)
        w[i++] = LE_READ_UINT32(key);

    if (i < 8)
    {
        /* Key must be padded according to the Serpent specification.

```

```

    "aabbcc" -> "aabbcc0100...00" -> 0x01ccbbaa. */
uint32_t pad = 0x01;

    while (key_length > 0)
pad = pad << 8 | key[--key_length];

    w[i++] = pad;

    while (i < 8)
w[i++] = 0;
    }
}

/* Initialize CONTEXT with the key KEY of LENGTH bytes. */
void
serpent_set_key (struct serpent_ctx *ctx,
    size_t length, const uint8_t * key)
{
    uint32_t w[8];
    uint32_t (*keys)[4];
    unsigned k;

    serpent_key_pad (key, length, w);

    /* Derive the 33 subkeys from KEY and store them in SUBKEYS. We do
    the recurrence in the key schedule using W as a circular buffer
    of just 8 uint32_t. */

    /* FIXME: Would be better to invoke SBOX with scalar variables as
    arguments, no arrays. To do that, unpack w into separate
    variables, use temporary variables as the SBOX destination. */

    keys = ctx->keys;
    k = 0;
    for (;;)
    {
        KS(keys, 3, w, 0, k);
        if (k == 132)
        break;
        KS(keys, 2, w, 4, k);
        KS(keys, 1, w, 0, k);
        KS(keys, 0, w, 4, k);
        KS(keys, 7, w, 0, k);
        KS(keys, 6, w, 4, k);
        KS(keys, 5, w, 0, k);
        KS(keys, 4, w, 4, k);
    }
    assert (keys == ctx->keys + 33);

```

```

}

void
serpent128_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT128_KEY_SIZE, key);
}

void
serpent192_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT192_KEY_SIZE, key);
}

void
serpent256_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT256_KEY_SIZE, key);
}

```

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# 1.180 nimbus-jose-jwt 4.23

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# 1.181 npth 1.2

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4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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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## 1.184 open-vm-tools 10.0.5

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Version 2.1, February 1999

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

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

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

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

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

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

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```
Gnomovision version 69, Copyright (C) year 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
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, 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.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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LICENSE

open-vm-tools 10.0.0

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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Version 2, June 1991

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Version 2.1, February 1999

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```
>>> base64.c-none
>>> convertutf.c/h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0
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```
>>> base64.c-none
```

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> convertutf.c/h from unicode, inc.-none

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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```
Gnomovision version 69, Copyright (C) year 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
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Public License instead of this License.

# 1.201 org.eclipse.jdt.core 3.8.2.v20130121

## 1.201.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" class="">
<head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article:
http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
<meta charset='utf-8'>
```

```
<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-486a2ba13121ca853388bbaabfb1482328e14fc6107d2c46137b73a1d2bfb9b7.css" media="all" rel="stylesheet" />
<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-a188e3c90771e1cf15418675011fd2967605127bbca3fd846147c3db0cc1044c.css" media="all" rel="stylesheet" />
```

```
<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-d2013a78fb2b0b2d9afce49f4cf82965d3f075b6b021bf51aa28d8df766f2ba4.css" media="all" rel="stylesheet" />
```

```
<link as="script" href="https://assets-cdn.github.com/assets/frameworks-90fadde68d68d108f0318274e0f72c8e36717b821c919eb6884c738f6bef8470.js" rel="preload" />
```

```
<link as="script" href="https://assets-cdn.github.com/assets/github-b34f54eabccdb0ffa90e322cffdb0db239d492b9a986092f1aa602c5cf84d36b4.js" rel="preload" />
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta http-equiv="Content-Language" content="en">
<meta name="viewport" content="width=1020">
```

```
<title>GitHub - eclipse/eclipse.jdt.core at v20130121-145634</title>
<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<link rel="apple-touch-icon" href="/apple-touch-icon.png">
<link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/apple-touch-icon-180x180.png">
<meta property="fb:app_id" content="1401488693436528">
```

```
<meta content="https://avatars1.githubusercontent.com/u/56974?v=3&s=400" name="twitter:image:src" /><meta content="@github" name="twitter:site" /><meta content="summary" name="twitter:card" /><meta content="eclipse/eclipse.jdt.core" name="twitter:title" /><meta content="JDT/Core project repository (eclipse.jdt.core)" name="twitter:description" />
```

```
<meta content="https://avatars1.githubusercontent.com/u/56974?v=3&s=400" property="og:image" /><meta content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta content="eclipse/eclipse.jdt.core" property="og:title" /><meta content="https://github.com/eclipse/eclipse.jdt.core" property="og:url" /><meta content="JDT/Core project repository (eclipse.jdt.core)" property="og:description" />
```

```
<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<link rel="assets" href="https://assets-cdn.github.com/">
```

```
<meta name="pjax-timeout" content="1000">

<meta name="msapplication-TileImage" content="/windows-tile.png">
<meta name="msapplication-TileColor" content="#ffffff">
<meta name="selected-link" value="repo_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKAVWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyEFwb7w3e0-uOTlrm8Jsck2F5StVihD0exw2fsA">
<meta name="google-analytics" content="UA-3769691-2">

<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-id" /><meta content="0C94D209:6450:778F32:572A1E09" name="octolytics-dimension-request_id" />
<meta content="/<user-name>/<repo-name>/files/disambiguate" data-pjax-transient="true" name="analytics-location" />

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">
<meta name="js-proxy-site-detection-payload"
content="NzY0OGZmM2Q0YzE0MjI0NzI4MTBjZDZkNjgzODVIZTJhNTA3ZmE3MWUwOWRmNGMxY2M4
NTZjNDUyMjQ4ZjQ3MXx7InJlbW90ZV9hZGRyZlZlIjoiMTIuMTQ4LjIxMC45IiwicmVxdWVzdF9pZCI6IjB
DOTREMjA5OjY0NTA6Nzc4RjMyOjU3MkExRTA5IiwidGltZXN0YXV1wIjojNDYyMzc3OTkzfQ==">

<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#4078c0">
<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">

<meta content="b0dfa2d08d5767b8f78748cd9dbb64adac6fa7a1" name="form-nonce" />

<meta http-equiv="x-pjax-version" content="b2937bc610dc6321adf5a5732e0de4bc">

<meta name="description" content="JDT/Core project repository (eclipse.jdt.core)">
<meta name="go-import" content="github.com/eclipse/eclipse.jdt.core git
https://github.com/eclipse/eclipse.jdt.core.git">

<meta content="56974" name="octolytics-dimension-user_id" /><meta content="eclipse" name="octolytics-dimension-user_login" /><meta content="2666605" name="octolytics-dimension-repository_id" /><meta
```

```
content="eclipse/eclipse.jdt.core" name="octolytics-dimension-repository_nwo" /><meta content="true"
name="octolytics-dimension-repository_public" /><meta content="false" name="octolytics-dimension-
repository_is_fork" /><meta content="2666605" name="octolytics-dimension-repository_network_root_id"
/><meta content="eclipse/eclipse.jdt.core" name="octolytics-dimension-repository_network_root_nwo" />
<link href="https://github.com/eclipse/eclipse.jdt.core/commits/v20130121-145634.atom" rel="alternate"
title="Recent Commits to eclipse.jdt.core:v20130121-145634" type="application/atom+xml">
```

```
<link rel="canonical" href="https://github.com/eclipse/eclipse.jdt.core/tree/v20130121-145634" data-pjax-
transient>
</head>
```

```
<body class="logged-out env-production vis-public mirror">
<div id="js-pjax-loader-bar" class="pjax-loader-bar"></div>
<a href="#start-of-content" tabindex="1" class="accessibility-aid js-skip-to-content">Skip to content</a>
```

```
<header class="site-header js-details-container" role="banner">
<div class="container-responsive">
<a class="header-logo-invertocat" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out)
Header, go to homepage, icon:logo-wordmark">
<svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16"
width="32"><path d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 0.4 0.07 0.55-0.17 0.55-0.38 0-0.19-0.01-
0.82-0.01-1.49-2.01 0.37-2.53-0.49-2.69-0.94-0.09-0.23-0.48-0.94-0.82-1.13-0.28-0.15-0.68-0.52-0.01-0.53 0.63-
0.01 1.08 0.58 1.23 0.82 0.72 1.21 1.87 0.87 2.33 0.66 0.07-0.52 0.28-0.87 0.51-1.07-1.78-0.2-3.64-0.89-3.64-3.95
0-0.87 0.31-1.59 0.82-2.15-0.08-0.2-0.36-1.02 0.08-2.12 0 0 0.67-0.21 2.2 0.82 0.64-0.18 1.32-0.27 2-0.27 0.68 0
1.36 0.09 2 0.27 1.53-1.04 2.2-0.82 2.2-0.82 0.44 1.1 0.16 1.92 0.08 2.12 0.51 0.56 0.82 1.27 0.82 2.15 0 3.07-1.87
3.75-3.65 3.95 0.29 0.25 0.54 0.73 0.54 1.48 0 1.07-0.01 1.93-0.01 2.2 0 0.21 0.15 0.46 0.55 0.38C13.71 14.53 16
11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>
</a>
```

```
<button class="btn-link right site-header-toggle js-details-target" type="button" aria-label="Toggle navigation">
<svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16"
width="18"><path d="M11.41 9H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59
1z m0-4H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1z m0.59
11h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1z"></path></svg>
</button>
```

```
<div class="site-header-menu">
<nav class="site-header-nav site-header-nav-main">
<a href="/personal" class="js-selected-navigation-item nav-item nav-item-personal" data-ga-click="Header,
click, Nav menu - item:personal" data-selected-links="/personal /personal">
```

Personal

```
</a> <a href="/open-source" class="js-selected-navigation-item nav-item nav-item-opensource" data-ga-click="Header, click, Nav menu - item:opensource" data-selected-links="/open-source /open-source">
```

Open source

```
</a> <a href="/business" class="js-selected-navigation-item nav-item nav-item-business" data-ga-click="Header, click, Nav menu - item:business" data-selected-links="/business /business/features /business/customers /business">
```

Business

```
</a> <a href="/explore" class="js-selected-navigation-item nav-item nav-item-explore" data-ga-click="Header, click, Nav menu - item:explore" data-selected-links="/explore /trending /trending/developers /integrations /integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship /explore">
```

Explore

```
</a> </nav>
```

```
<div class="site-header-actions">
```

```
<a class="btn btn-primary site-header-actions-btn" href="/join?source=header-repo" data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">Sign up</a>
```

```
<a class="btn site-header-actions-btn mr-2" href="/login?return_to=%2Feclipse%2Feclipse.jdt.core%2Ftree%2Fv20130121-145634" data-ga-click="(Logged out) Header, clicked Sign in, text:sign-in">Sign in</a>
```

```
</div>
```

```
<nav class="site-header-nav site-header-nav-secondary">
```

```
<a class="nav-item" href="/pricing">Pricing</a>
```

```
<a class="nav-item" href="/blog">Blog</a>
```

```
<a class="nav-item" href="https://help.github.com">Support</a>
```

```
<a class="nav-item header-search-link" href="https://github.com/search">Search GitHub</a>
```

```
<div class="header-search scoped-search site-scoped-search js-site-search" role="search">
```

```
<!-- </textarea> --><!-- "" --><form accept-charset="UTF-8" action="/eclipse/eclipse.jdt.core/search" class="js-site-search-form" data-scoped-search-url="/eclipse/eclipse.jdt.core/search" data-unscooped-search-url="/search" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="&#x2713;" /></div>
```

```
<label class="form-control header-search-wrapper js-chromeless-input-container">
```

```
<div class="header-search-scope">This repository</div>
```

```
<input type="text"
```

```
class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"
```

```
data-hotkey="s"
```

```
name="q"
```

```
placeholder="Search"
```

```
aria-label="Search this repository"
```

```
data-unscooped-placeholder="Search GitHub"
```

```
data-scoped-placeholder="Search"
```

```
tabindex="1"
```

```
autocapitalize="off">
```

```
</label>
```

```
</form></div>
```

```
</nav>
```



```
</div>
</div>
</header>
```

```
<div id="start-of-content" class="accessibility-aid"></div>
```

```
<div id="js-flash-container">
</div>
```

```
<div role="main" class="main-content">
  <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
    <div id="js-repo-pjax-container" data-pjax-container>
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
  <div class="container repohead-details-container">
```

```
<ul class="pagehead-actions">
```

```
<li>
```

```
  <a href="/login?return_to=%2Feclipse%2Feclipse.jdt.core"
    class="btn btn-sm btn-with-count tooltipped tooltipped-n"
    aria-label="You must be signed in to watch a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
    width="16"><path d="M8.06 2C3 2 0 8 8 8s3 6 8.06 6c4.94 0 7.94-6 7.94-6S13 2 8.06 2z m-0.06 10c-2.2 0-4-1.78-
    4-4 0-2.2 1.8-4 4-2.2 0 4 1.8 4 0 2.2-1.78 4-4 4z m2-4c0 1.11-0.89 2-2 2s-2-0.89-2-2 0.89-2 2-2 2 0.89 2
    2z"></path></svg>
```

```
    Watch
```

```
  </a>
```

```
  <a class="social-count" href="/eclipse/eclipse.jdt.core/watchers">
```

```
    17
```

```
  </a>
```

```
</li>
```

```
<li>
```

```
  <a href="/login?return_to=%2Feclipse%2Feclipse.jdt.core"
    class="btn btn-sm btn-with-count tooltipped tooltipped-n"
    aria-label="You must be signed in to star a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
    width="14"><path d="M14 6l-4.9-0.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14l4.33-2.33 4.33 2.33L10.4 9.26 14
    6z"></path></svg>
```

```
    Star
```

```
  </a>
```

```

<a class="social-count js-social-count" href="/eclipse/eclipse.jdt.core/stargazers">
  67
</a>

</li>

<li>
  <a href="/login?return_to=%2Feclipse%2Feclipse.jdt.core"
    class="btn btn-sm btn-with-count tooltipped tooltipped-n"
    aria-label="You must be signed in to fork a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
      width="10"><path d="M8 1c-1.11 0-2 0.89-2 2 0 0.73 0.41 1.38 1 1.72v1.28L5 8 3 6v-1.28c0.59-0.34 1-0.98 1-1.72
      0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72v1.78l3 3v1.78c-0.59 0.34 1 0.98 1 1.72 0 1.11 0.89 2 2 2s2-
      0.89 2-2c0-0.73-0.41-1.38-1-1.72V9.5l3-3V4.72c0.59-0.34 1-0.98 1-1.72 0-1.11-0.89-2-2-2zM2 4.2c-0.66 0-1.2-
      0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z m3 10c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2
      0.55 1.2 1.2-0.55 1.2-1.2 1.2z m3-10c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2
      1.2z"></path></svg>
    Fork
  </a>

  <a href="/eclipse/eclipse.jdt.core/network" class="social-count">
    53
  </a>
</li>
</ul>

<h1 class="entry-title public repo-mirror">
  <svg aria-hidden="true" class="octicon octicon-mirror" height="16" version="1.1" viewBox="0 0 16 16"
    width="16"><path d="M15.5 4.7L8.5 0 1.5 4.7c-0.3 0.19-0.5 0.45-0.5 0.8v10.5l7.5-4 7.5 4V5.5c0-0.34-0.2-0.61-
    0.5-0.8z m-0.5 9.8L9 11.25v-1.25h-1v1.25L2 14.5V5.5L8 1.5v4.5h1V1.5l6 4v9zM6 7h5V5l3 3 3V9H6v2L3 8l3-
    3v2z"></path></svg>
  <span class="author" itemprop="author"><a href="/eclipse" class="url fn" rel="author">eclipse</a></span><!--
  --><span class="path-divider"></span><!--
  --><strong itemprop="name"><a href="/eclipse/eclipse.jdt.core" data-pjax="#js-repo-pjax-
  container">eclipse.jdt.core</a></strong>

  <span class="mirror-flag">
    <span class="text">mirrored from <a
    href="git://git.eclipse.org/gitroot/jdt/eclipse.jdt.core.git">git://git.eclipse.org/gitroot/jdt/eclipse.jdt.core.git</a></spa
    n>
  </span>
</h1>

</div>
<div class="container">

<nav class="reponav js-repo-nav js-sidenav-container-pjax"

```

itemscope  
itemtype="http://schema.org/BreadcrumbList"  
role="navigation"  
data-pjax="#js-repo-pjax-container">

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
<a href="/eclipse/eclipse.jdt.core/tree/v20130121-145634" aria-selected="true" class="js-selected-navigation-item selected reponav-item" data-hotkey="g c" data-selected-links="repo\_source repo\_downloads repo\_commits repo\_releases repo\_tags repo\_branches /eclipse/eclipse.jdt.core/tree/v20130121-145634" itemprop="url">  
<svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M9.5 3l-1.5 1.5 3.5 3.5L8 11.5l1.5 1.5 4.5-5L9.5 3zM4.5 3L0 8l4.5 5 1.5-1.5L2.5 8l3.5-3.5L4.5 3z"></path></svg>  
<span itemprop="name">Code</span>  
<meta itemprop="position" content="1">  
</a> </span>

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
<a href="/eclipse/eclipse.jdt.core/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p" data-selected-links="repo\_pulls /eclipse/eclipse.jdt.core/pulls" itemprop="url">  
<svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12 16" width="12"><path d="M11 11.28c0-1.73 0-6.28 0-6.28-0.03-0.78-0.34-1.47-0.94-2.06s-1.28-0.91-2.06-0.94c0 0-1.02 0-1 0V0L4 3l3 3V4h1c0.27 0.02 0.48 0.11 0.69 0.31s0.3 0.42 0.31 0.69v6.28c-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72z m-1 2.92c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2zM4 3c0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72 0 1.55 0 5.56 0 6.56-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72V4.72c0.59-0.34 1-0.98 1-1.72z m-0.8 10c0 0.66-0.55 1.2-1.2 1.2s-1.2-0.55-1.2-1.2 0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2z m-1.2-8.8c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z"></path></svg>  
<span itemprop="name">Pull requests</span>  
<span class="counter">1</span>  
<meta itemprop="position" content="3">  
</a> </span>

<a href="/eclipse/eclipse.jdt.core/pulse" class="js-selected-navigation-item reponav-item" data-selected-links="pulse /eclipse/eclipse.jdt.core/pulse">  
<svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0V10h3.6L4.5 8.2l0.9 5.4L9 8.5l1.6 1.5H14V8H11.5z"></path></svg>  
Pulse  
</a>

<a href="/eclipse/eclipse.jdt.core/graphs" class="js-selected-navigation-item reponav-item" data-selected-links="repo\_graphs repo\_contributors /eclipse/eclipse.jdt.core/graphs">  
<svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path d="M16 14v1H0V0h1v14h15z m-1 1-1H3V8h2v5z m4 0H7V3h2v10z m4 0H11V6h2v7z"></path></svg>  
Graphs

</a>

</nav>

</div>

</div>

<div class="container new-discussion-timeline experiment-repo-nav">

<div class="repository-content">

<div class="repository-meta js-details-container">

<span class="repository-meta-content">

<span itemprop="about"> JDT/Core project repository (eclipse.jdt.core)</span>

</span>

</div>

<div class="overall-summary overall-summary-bottomless">

<div class="stats-switcher-viewport js-stats-switcher-viewport">

<div class="stats-switcher-wrapper">

<ul class="numbers-summary">

<li class="commits">

<a data-pjax href="/eclipse/eclipse.jdt.core/commits/v20130121-145634">

<svg aria-hidden="true" class="octicon octicon-history" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M8 13H6V6h5v2H8v5zM7 1c-2.19 0-4.13 1.02-5.41 2.59L0 2v4h4l-1.5-1.5c1.05-1.33 2.67-2.2 4.5-2.2 3.14 0 5.7 2.56 5.7 5.7S10.14 13.7 7 13.7 1.3 11.14 1.3 8c0-0.34 0.03-0.67 0.09-1H0.08c-0.05 0.33-0.08 0.66-0.08 1 0 3.86 3.14 7 7 7s7-3.14 7-7S10.86 1 7 1z"></path></svg>

<span class="num text-emphasized">

19,076

</span>

commits

</a>

</li>

<li>

<a data-pjax href="/eclipse/eclipse.jdt.core/branches">

<svg aria-hidden="true" class="octicon octicon-git-branch" height="16" version="1.1" viewBox="0 0 10 16" width="10"><path d="M10 5c0-1.11-0.89-2-2-2s-2 0.89-2 2c0 0.73 0.41 1.38 1 1.72v0.3c-0.02 0.52-0.23 0.98-0.63 1.38s-0.86 0.61-1.38 0.63c-0.83 0.02-1.48 0.16-2 0.45V4.72c0.59-0.34 1-0.98 1-1.72 0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72v6.56C0.41 11.63 0 12.27 0 13c0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.53-0.2-1-0.53-1.36 0.09-0.06 0.48-0.41 0.59-0.47 0.25-0.11 0.56-0.17 0.94-0.17 1.05-0.05 1.95-0.45 2.75-1.25s1.2-1.98 1.25-3.02h-0.02c0.61-0.36 1.02-1 1.02-1.73zM2 1.8c0.66 0 1.2 0.55 1.2 1.2s-0.55 1.2-1.2 1.2-1.2-0.55-1.2-1.2 0.55-1.2 1.2-1.2zm0 12.41c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2zm6-8c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z"></path></svg>

<span class="num text-emphasized">

99

</span>

```

    branches
  </a>
</li>

<li>
  <a data-pjax href="/eclipse/eclipse.jdt.core/releases">
    <svg aria-hidden="true" class="octicon octicon-tag" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M6.73 2.73c-0.47-0.47-1.11-0.73-1.77-0.73H2.5C1.13 2 3.13 0 4.5v2.47c0 0.66 0.27 1.3
0.73 1.77l6.06 6.06c0.39 0.39 1.02 0.39 1.41 0l4.59-4.59c0.39-0.39 0.39-1.02 0-1.41L6.73 2.73zM1.38 8.09c-0.31-
0.3-0.47-0.7-0.47-1.13V4.5c0-0.88 0.72-1.59 1.59-1.59h2.47c0.42 0 0.83 0.16 1.13 0.47l6.14 6.13-4.73 4.73L1.38
8.09z m0.63-4.09h2v2H2V4z"></path></svg>
    <span class="num text-emphasized">
      3,210
    </span>
    releases
  </a>
</li>

<li>
  <include-fragment src="/eclipse/eclipse.jdt.core/contributors_size">
    <a href="/eclipse/eclipse.jdt.core/graphs/contributors">
      <svg aria-hidden="true" class="octicon octicon-organization" height="16" version="1.1" viewBox="0 0 14
16" width="14"><path d="M4.75 4.95c0.55 0.64 1.34 1.05 2.25 1.05s1.7-0.41 2.25-1.05c0.34 0.63 1 1.05 1.75 1.05
1.11 0 2-0.89 2-2s-0.89-2-2-2c-0.41 0-0.77 0.13-1.08 0.33C9.61 1 8.42 0 7 0S4.39 1 4.08 2.33c-0.31-0.2-0.67-0.33-
1.08-0.33-1.11 0-2 0.89-2 2s0.89 2 2 2c0.75 0 1.41-0.42 1.75-1.05z m5.2-1.52c0.2-0.38 0.59-0.64 1.05-0.64 0.66 0
1.2 0.55 1.2 1.2s-0.55 1.2-1.2 1.2-1.17-0.53-1.19-1.17c0.06-0.19 0.11-0.39 0.14-0.59zM7 0.98c1.11 0 2.02 0.91
2.02 2.02s-0.91 2.02-2.02-0.91-2.02-2.02S5.89 0.98 7 0.98zM3 5.2c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-
1.2c0.45 0 0.84 0.27 1.05 0.64 0.03 0.2 0.08 0.41 0.14 0.59-0.02 0.64-0.53 1.17-1.19 1.17z m10 0.8H1c-0.55 0-1
0.45-1 1v3c0 0.55 0.45 1 1 1v2c0 0.55 0.45 1 1 1h1c0.55 0 1-0.45 1-1v-1h1v3c0 0.55 0.45 1 1 1h2c0.55 0 1-0.45 1-
1V12h1v1c0 0.55 0.45 1 1 1h1c0.55 0 1-0.45 1-1V11c0.55 0 1-0.45 1-1V7c0-0.55-0.45-1-1-1zM3 13h-
1V10H1V7h2v6z m7-2h-1V9h-1v6H6V9h-1v2h-1V7h6v4z m3-1h-1v3h-1V7h2v3z"></path></svg>
      <span class="num text-emphasized"></span>
      Fetching contributors
    </a>
  </include-fragment> </li>
</ul>

<div class="repository-lang-stats">
  <ol class="repository-lang-stats-numbers">
    <li>
      <a href="/eclipse/eclipse.jdt.core/search?l=java" data-ga-click="Repository, language stats search click,
location:repo overview">
        <span class="color-block language-color" style="background-color:#b07219;"></span>
        <span class="lang">Java</span>
        <span class="percent">96.3%</span>
      </a>
    </li>
    <li>

```

```

    <a href="/eclipse/eclipse.jdt.core/search?l=html" data-ga-click="Repository, language stats search click,
location:repo overview">
    <span class="color-block language-color" style="background-color:#e44b23;"></span>
    <span class="lang">HTML</span>
    <span class="percent">3.5%</span>
    </a>
</li>
<li>
    <a href="/eclipse/eclipse.jdt.core/search?l=gap" data-ga-click="Repository, language stats search click,
location:repo overview">
    <span class="color-block language-color" style="background-color:#ccc;"></span>
    <span class="lang">GAP</span>
    <span class="percent">0.2%</span>
    </a>
</li>
<li>
    <a href="/eclipse/eclipse.jdt.core/search?l=groff" data-ga-click="Repository, language stats search click,
location:repo overview">
    <span class="color-block language-color" style="background-color:#ccc;"></span>
    <span class="lang">Groff</span>
    <span class="percent">0.0%</span>
    </a>
</li>
<li>
    <a href="/eclipse/eclipse.jdt.core/search?l=bat" data-ga-click="Repository, language stats search click,
location:repo overview">
    <span class="color-block language-color" style="background-color:#C1F12E;"></span>
    <span class="lang">Batchfile</span>
    <span class="percent">0.0%</span>
    </a>
</li>
<li>
    <a href="/eclipse/eclipse.jdt.core/search?l=css" data-ga-click="Repository, language stats search click,
location:repo overview">
    <span class="color-block language-color" style="background-color:#563d7c;"></span>
    <span class="lang">CSS</span>
    <span class="percent">0.0%</span>
    </a>
</li>
</ol>
</div>
</div>
</div>
</div>

```

```

<div class="repository-lang-stats-graph js-toggle-lang-stats" title="Click for language details" data-ga-
click="Repository, language bar stats toggle, location:repo overview">
    <span class="language-color" aria-label="Java 96.3%" style="width:96.3%; background-color:#b07219;"

```

```

itemprop="keywords">Java</span>
  <span class="language-color" aria-label="HTML 3.5%" style="width:3.5%; background-color:#e44b23;"
itemprop="keywords">HTML</span>
  <span class="language-color" aria-label="GAP 0.2%" style="width:0.2%; background-color:#ccc;"
itemprop="keywords">GAP</span>
  <span class="language-color" aria-label="Groff 0.0%" style="width:0.0%; background-color:#ccc;"
itemprop="keywords">Groff</span>
  <span class="language-color" aria-label="Batchfile 0.0%" style="width:0.0%; background-color:#C1F12E;"
itemprop="keywords">Batchfile</span>
  <span class="language-color" aria-label="CSS 0.0%" style="width:0.0%; background-color:#563d7c;"
itemprop="keywords">CSS</span>
</div>

```

```
<div class="file-navigation in-mid-page">
```

```
<div class="right">
```

```
<div class="btn-group">
```

```
<button class="btn btn-sm disabled tooltiped tooltiped-n" aria-label="Select a branch to create a new file"
type="button">
```

```
  New file
```

```
</button>
```

```
<a href="/eclipse/eclipse.jdt.core/find/v20130121-145634"
```

```
  class="btn btn-sm empty-icon right js-pjax-capture-input"
```

```
  data-pjax
```

```
  data-hotkey="t"
```

```
  data-ga-click="Repository, find file, location:repo overview">
```

```
  Find file
```

```
</a>
```

```
</div>
```

```
<div class="file-navigation-options" data-multiple>
```

```
<div class="file-navigation-option">
```

```
  <!-- </textarea> --><!-- "" --><form accept-charset="UTF-8" action="/users/set_protocol" class="js-set-user-
protocol-preference" data-form-nonce="b0dfa2d08d5767b8f78748cd9dbb64adac6fa7a1" data-remote="true"
method="post"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="&#x2713;" /><input name="authenticity_token" type="hidden"
value="XvmgmpKcWv/zYEDivyXvFb4g+ASn+P1QxDVJ27EwtFXPZfUIPU/MDyH5t78oKJnn8yaTIk6/nZNhSd9
EQM5EcA==" /></div>
```

```
  <input type="hidden" name="protocol_type" value="clone">
```

```
<div class="select-menu js-menu-container js-select-menu">
```

```
<div class="input-group js-select-button js-zeroclipboard-container">
```

```
<div class="input-group-button">
```

```
<button type="button" class="btn btn-sm select-menu-button js-menu-target" data-ga-click="Repository, clone
```

```

HTTPS, location:repo overview">
  HTTPS
</button>
</div>
<input type="text" class="form-control input-monospace input-sm js-zeroclipboard-target js-url-field"
value="https://github.com/eclipse/eclipse.jdt.core.git" aria-label="Clone this repository at
https://github.com/eclipse/eclipse.jdt.core.git" readonly>
<div class="input-group-button">
  <button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltiped
tooltipled-s" data-copied-hint="Copied!" type="button"><svg aria-hidden="true" class="octicon octicon-clippy"
height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M2 12h4v1H2v-1z m5-6H2v1h5v-1z m2
3V7L6 10l3 3V11h5V9H9z m-4.5-1H2v1h2.5v-1zM2 11h2.5v-1H2v1z m9 1h1v2c-0.02 0.28-0.11 0.52-0.3 0.7s-
0.42 0.28-0.7 0.3H1c-0.55 0-1-0.45-1-1V3c0-0.55 0.45-1 1-1h3C4 0.89 4.89 0 6 0s2 0.89 2 2h3c0.55 0 1 0.45 1
1v5h-1V5H1v9h10V12zM2 4h8c0-0.55-0.45-1-1-1h-1c-0.55 0-1-0.45-1-1s-0.45-1-1-1 0.45-1 1-0.45 1-1 1h-1c-
0.55 0-1 0.45-1 1z"></path></svg></button>
</div>

</div>

<div class="select-menu-modal-holder">
  <div class="select-menu-modal js-menu-content" aria-hidden="true">
    <div class="select-menu-header">
      <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M7.48 8l3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-
3.75L0.77 4.25l1.48-1.48 3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
      <span class="select-menu-title">Choose a clone URL</span>
    </div>

    <div class="select-menu-list js-navigation-container" role="menu">
      <div class="select-menu-item js-navigation-item selected" role="menuitem" tabindex="0">
        <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16"
version="1.1" viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5
1.5z"></path></svg>
        <div class="select-menu-item-text">
          <input type="radio" name="protocol_selector" value="http" checked>
          <span class="select-menu-item-heading">
            HTTPS
            (recommended)
          </span>
          <span class="description">
            Clone with Git or checkout with SVN using the repository's web address.
          </span>
          <span class="js-select-button-text hidden-select-button-text">
            <div class="input-group-button">
              <button type="button" class="btn btn-sm select-menu-button js-menu-target" data-ga-click="Repository, clone
HTTPS, location:repo overview">
                HTTPS
              </button>
            </div>
          </span>
        </div>
      </div>
    </div>
  </div>
</div>

```



```
</div>
<input type="text" class="form-control input-monospace input-sm js-zeroclipboard-target js-url-field"
value="https://github.com/eclipse/eclipse.jdt.core.git" aria-label="Clone this repository at
https://github.com/eclipse/eclipse.jdt.core.git" readonly>
<div class="input-group-button">
  <button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltip
  tooltiped-s" data-copied-hint="Copied!" type="button"><svg aria-hidden="true" class="octicon octicon-clippy"
  height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M2 12h4v1H2v-1z m5-6H2v1h5v-1z m2
  3V7L6 10l3 3V11h5V9H9z m-4.5-1H2v1h2.5v-1zM2 11h2.5v-1H2v1z m9 1h1v2c-0.02 0.28-0.11 0.52-0.3 0.7s-
  0.42 0.28-0.7 0.3H1c-0.55 0-1-0.45-1-1V3c0-0.55 0.45-1 1-1h3C4 0.89 4.89 0 6 0s2 0.89 2 2h3c0.55 0 1 0.45 1
  1v5h-1V5H1v9h10V12zM2 4h8c0-0.55-0.45-1-1-1h-1c-0.55 0-1-0.45-1-1s-0.45-1-1-1 0.45-1 1-0.45 1-1 1h-1c-
  0.55 0-1 0.45-1 1z"></path></svg></button>
</div>
```

```
      </span>
    </div>
  </div>
</div>
<div class="select-menu-list" role="menu">
  <a class="select-menu-item select-menu-action" href="https://help.github.com/articles/which-remote-
  url-should-i-use" target="_blank">
    <svg aria-hidden="true" class="octicon octicon-question select-menu-item-icon" height="16"
    version="1.1" viewBox="0 0 14 16" width="14"><path d="M6 10h2v2H6V10z m4-3.5c0 2.14-2 2.5-2 2.5H6c0-
    0.55 0.45-1 1-1h0.5c0.28 0 0.5-0.22 0.5-0.5v-1c0-0.28-0.22-0.5-0.5-0.5h-1c-0.28 0-0.5 0.22-0.5 0.5v0.5H4c0-1.5
    1.5-3 3-3s3 1 3 2.5zM7 2.3c3.14 0 5.7 2.56 5.7 5.7S10.14 13.7 7 13.7 1.3 11.14 1.3 8s2.56-5.7 5.7-5.7m0-1.3C3.14
    1 0 4.14 0 8s3.14 7 7 7 7-3.14 7-7S10.86 1 7 1z"></path></svg>
    <div class="select-menu-item-text">
      Learn more about clone URLs
    </div>
  </a>
</div>
</div>
</div>
</div>
</form> </div>
```

```
<div class="file-navigation-option">
</div>
```

```
<div class="file-navigation-option">
  <a href="/eclipse/eclipse.jdt.core/archive/v20130121-145634.zip"
  class="btn btn-sm"
  rel="nofollow"
  data-ga-click="Repository, download zip, location:repo overview">
    Download ZIP
  </a>
</div>
```

```
</div>
</div>
```

```
<div class="select-menu branch-select-menu js-menu-container js-select-menu left">
  <button class="btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"
    title="v20130121-145634"
    type="button" aria-label="Switch branches or tags" tabindex="0" aria-haspopup="true">
    <i>Tag:</i>
    <span class="js-select-button css-truncate-target">v20130121-1456...</span>
  </button>
```

```
<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax aria-hidden="true">
```

```
  <div class="select-menu-modal">
    <div class="select-menu-header">
      <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
        viewBox="0 0 12 16" width="12"><path d="M7.48 813.75 3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-
        3.75L0.77 4.2511.48-1.48 3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
      <span class="select-menu-title">Switch branches/tags</span>
    </div>
```

```
  <div class="select-menu-filters">
    <div class="select-menu-text-filter">
      <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
        js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
    </div>
    <div class="select-menu-tabs">
      <ul>
        <li class="select-menu-tab">
          <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
            tab" role="tab">Branches</a>
        </li>
        <li class="select-menu-tab">
          <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag..." class="js-select-menu-tab"
            role="tab">Tags</a>
        </li>
      </ul>
    </div>
  </div>
```

```
  <div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
    role="menu">
```

```
    <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">
```

```
      <a class="select-menu-item js-navigation-item js-navigation-open "
```

```

href="/eclipse/eclipse.jdt.core/tree/APT"
data-name="APT"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="APT">
  APT
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/APT_3_1_1_branch"
data-name="APT_3_1_1_branch"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="APT_3_1_1_branch">
  APT_3_1_1_branch
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/APT_3_1_1_maintenance"
data-name="APT_3_1_1_maintenance"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="APT_3_1_1_maintenance">
  APT_3_1_1_maintenance
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/APT_32"
data-name="APT_32"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="APT_32">
  APT_32
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/BETA_JAVA7"
data-name="BETA_JAVA7"

```

```

    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="BETA_JAVA7">
      BETA_JAVA7
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/BETA_JAVA8_LUNA"
    data-name="BETA_JAVA8_LUNA"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="BETA_JAVA8_LUNA">
      BETA_JAVA8_LUNA
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/BETA_JAVA8"
    data-name="BETA_JAVA8"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="BETA_JAVA8">
      BETA_JAVA8
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/BETA_JAVA9"
    data-name="BETA_JAVA9"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="BETA_JAVA9">
      BETA_JAVA9
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/DO_NOT_USE"
    data-name="DO_NOT_USE"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

```

viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="DO_NOT_USE">
    DO_NOT_USE
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/ECLIPSE_1_0"
  data-name="ECLIPSE_1_0"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="ECLIPSE_1_0">
    ECLIPSE_1_0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/ECLIPSE_2_0"
  data-name="ECLIPSE_2_0"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="ECLIPSE_2_0">
    ECLIPSE_2_0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/JDK_1_5"
  data-name="JDK_1_5"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="JDK_1_5">
    JDK_1_5
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/JSR_308"
  data-name="JSR_308"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="JSR_308">
    JSR_308
  </span>
</a>

```

```

</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/JUnit4_incubator_bug153429"
  data-name="JUnit4_incubator_bug153429"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="JUnit4_incubator_bug153429">
    JUnit4_incubator_bug153429
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/M5_PATCHING"
  data-name="M5_PATCHING"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="M5_PATCHING">
    M5_PATCHING
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/M5"
  data-name="M5"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="M5">
    M5
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/NullAnalysisForFields"
  data-name="NullAnalysisForFields"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="NullAnalysisForFields">
    NullAnalysisForFields
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

```

```

href="/eclipse/eclipse.jdt.core/tree/Pioneer"
data-name="Pioneer"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="Pioneer">
  Pioneer
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R2_0_1"
data-name="R2_0_1"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="R2_0_1">
  R2_0_1
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R2_1_maintenance"
data-name="R2_1_maintenance"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R2_1_maintenance">
  R2_1_maintenance
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R3_0_maintenance"
data-name="R3_0_maintenance"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_0_maintenance">
  R3_0_maintenance
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R3_0_2_patches"
data-name="R3_0_2_patches"

```

```

    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="R3_0_2_patches">
      R3_0_2_patches
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_1_maintenance"
    data-name="R3_1_maintenance"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_1_maintenance">
      R3_1_maintenance
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_1_2_patches"
    data-name="R3_1_2_patches"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="R3_1_2_patches">
      R3_1_2_patches
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_2_maintenance"
    data-name="R3_2_maintenance"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_2_maintenance">
      R3_2_maintenance
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_2_1_maintenance"
    data-name="R3_2_1_maintenance"
    data-skip-pjax="true"
    rel="nofollow">

```



```

    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_2_1_maintenance">
      R3_2_1_maintenance
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_2_1_patches"
    data-name="R3_2_1_patches"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="R3_2_1_patches">
      R3_2_1_patches
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_3_maintenance"
    data-name="R3_3_maintenance"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_3_maintenance">
      R3_3_maintenance
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_4_IES_maintenance"
    data-name="R3_4_IES_maintenance"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_4_IES_maintenance">
      R3_4_IES_maintenance
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/R3_4_maintenance_patches"
    data-name="R3_4_maintenance_patches"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

```

viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_4_maintenance_patches">
    R3_4_maintenance_patches
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_4_maintenance"
  data-name="R3_4_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_4_maintenance">
    R3_4_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_4_1_maintenance_patches"
  data-name="R3_4_1_maintenance_patches"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_4_1_maintenance_patches">
    R3_4_1_maintenance_patches
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_5_maintenance"
  data-name="R3_5_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_5_maintenance">
    R3_5_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_6_maintenance_Java7"
  data-name="R3_6_maintenance_Java7"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R3_6_maintenance_Java7">
    R3_6_maintenance_Java7
  </span>
</a>
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  href="/eclipse/eclipse.jdt.core/tree/R3_6_maintenance"
  data-name="R3_6_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
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title="R3_6_maintenance">
    R3_6_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_7_maintenance"
  data-name="R3_7_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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title="R3_7_maintenance">
    R3_7_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R3_8_maintenance"
  data-name="R3_8_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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title="R3_8_maintenance">
    R3_8_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R4_3_maintenance_Java8"
  data-name="R4_3_maintenance_Java8"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R4_3_maintenance_Java8">
  R4_3_maintenance_Java8
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="R4_3_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R4_3_maintenance">
  R4_3_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="R4_4_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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title="R4_4_maintenance">
  R4_4_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/R4_4_1_maintenance"
  data-name="R4_4_1_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R4_4_1_maintenance">
  R4_4_1_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="R4_5_maintenance"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="R4_5_maintenance">
    R4_5_maintenance
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/STABLE"
  data-name="STABLE"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="STABLE">
    STABLE
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/Startup_R32x"
  data-name="Startup_R32x"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="Startup_R32x">
    Startup_R32x
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/TARGET_321"
  data-name="TARGET_321"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="TARGET_321">
    TARGET_321
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/THAW_402"
  data-name="THAW_402"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="THAW_402">
    THAW_402

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    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/THAW_452_R30x"
    data-name="THAW_452_R30x"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="THAW_452_R30x">
      THAW_452_R30x
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="ajain/bug378024"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="ajain/bug378024">
      ajain/bug378024
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/assertion_stream"
    data-name="assertion_stream"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="assertion_stream">
      assertion_stream
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/defender"
    data-name="defender"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      defender
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "

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href="/eclipse/eclipse.jdt.core/tree/integration"
data-name="integration"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="integration">
integration
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/jarthana/backport"
data-name="jarthana/backport"
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<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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jarthana/backport
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/jeromel"
data-name="jeromel"
data-skip-pjax="true"
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jeromel
</span>
</a>
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data-name="master"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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master
</span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/mmatela/backport"
data-name="mmatela/backport"
data-skip-pjax="true"
rel="nofollow">

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    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
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      mmatela/backport
    </span>
  </a>
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    data-name="ott_stream"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    </span>
  </a>
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    data-name="perf_30"
    data-skip-pjax="true"
    rel="nofollow">
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    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/perf_31"
    data-name="perf_31"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="perf_31">
      perf_31
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="perf_32x"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="perf_32x">
      perf_32x
    </span>
  </a>

```



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</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="perf_33x"
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    perf_33x
  </span>
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    perf_34x
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="perf_35x"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="perf_35x">
    perf_35x
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/perf_36x"
  data-name="perf_36x"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="perf_36x">
    perf_36x
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/perf_37x"

```

```

data-name="perf_37x"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
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perf_37x
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/perf_213"
data-name="perf_213"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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perf_213
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/perf_301"
data-name="perf_301"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="perf_301">
perf_301
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/sasikanth/betaJ9New"
data-name="sasikanth/betaJ9New"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sasikanth/betaJ9New">
sasikanth/betaJ9New
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/sasikanth/betaJ9"
data-name="sasikanth/betaJ9"
data-skip-pjax="true"
rel="nofollow">

```

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    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="sasikanth/betaJ9">
      sasikanth/betaJ9
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/sasikanth/bug476718_experiment"
    data-name="sasikanth/bug476718_experiment"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sasikanth/bug476718_experiment">
      sasikanth/bug476718_experiment
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/sasikanth/bug_479119"
    data-name="sasikanth/bug_479119"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sasikanth/bug_479119">
      sasikanth/bug_479119
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/sasikanth/sasi_bug405778"
    data-name="sasikanth/sasi_bug405778"
    data-skip-pjax="true"
    rel="nofollow">
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    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sasikanth/sasi_bug405778">
      sasikanth/sasi_bug405778
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/sherrmann/Bug388739"
    data-name="sherrmann/Bug388739"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sherrmann/Bug388739">
  sherrmann/Bug388739
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/sherrmann/ExternalAnnotations"
  data-name="sherrmann/ExternalAnnotations"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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title="sherrmann/ExternalAnnotations">
  sherrmann/ExternalAnnotations
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/sherrmann/NewTypeInference"
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  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sherrmann/NewTypeInference">
  sherrmann/NewTypeInference
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/sherrmann/NullAnnotationsForFields"
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  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sherrmann/NullAnnotationsForFields">
  sherrmann/NullAnnotationsForFields
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/sherrmann/NullAnnotationsForFields2"
  data-name="sherrmann/NullAnnotationsForFields2"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sherrmann/NullAnnotationsForFields2">
  sherrmann/NullAnnotationsForFields2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/sherrmann/NullAnnotationsForFields_381_inherit"
  data-name="sherrmann/NullAnnotationsForFields_381_inherit"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="sherrmann/NullAnnotationsForFields_381_inherit">
  sherrmann/NullAnnotationsForFields_381_inherit
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.1.2"
  data-name="unlabeled-1.1.2"
  data-skip-pjax="true"
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="unlabeled-1.1.2">
  unlabeled-1.1.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="unlabeled-1.1.4"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="unlabeled-1.1.4">
  unlabeled-1.1.4
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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        unlabeled-1.2.4
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="unlabeled-1.2.12">
        unlabeled-1.2.12
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="unlabeled-1.3.2"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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        unlabeled-1.3.2
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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        unlabeled-1.3.8
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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        unlabeled-1.3.12
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

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data-name="unlabeled-1.4.2"
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unlabeled-1.4.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="unlabeled-1.5.2"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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unlabeled-1.5.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="unlabeled-1.6.2"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="unlabeled-1.6.2">
unlabeled-1.6.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
rel="nofollow">
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unlabeled-1.7.2
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      unlabeled-1.9.2
    </span>
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    data-skip-pjax="true"
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      unlabeled-1.10.2
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="unlabeled-1.11.2"
    data-skip-pjax="true"
    rel="nofollow">
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      unlabeled-1.11.2
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  </a>
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    </span>
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    data-skip-pjax="true"
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      unlabeled-1.13.2
    </span>
  </a>
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    data-name="unlabeled-1.16.2"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      unlabeled-1.16.2
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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      unlabeled-1.28.2
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="unlabeled-1.91.2"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="unlabeled-1.91.2">
      unlabeled-1.91.2
    </span>
  </a>
</div>

  <div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/eclipse/eclipse.jdt.core/tree/vAPT_32_to_HEAD"
      data-name="vAPT_32_to_HEAD"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
      <span class="select-menu-item-text css-truncate-target" title="vAPT_32_to_HEAD">
        vAPT_32_to_HEAD
      </span>
    </a>
    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/eclipse/eclipse.jdt.core/tree/v200704286-1400"
      data-name="v200704286-1400"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
      <span class="select-menu-item-text css-truncate-target" title="v200704286-1400">

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v200704286-1400
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v200600403-1900"
data-name="v200600403-1900"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v200600403-1900">
v200600403-1900
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v200600401-0050"
data-name="v200600401-0050"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v200600401-0050">
v200600401-0050
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130227-164313"
data-name="v20130227-164313"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130227-164313">
v20130227-164313
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130226-171510"
data-name="v20130226-171510"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130226-171510">
v20130226-171510
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

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href="/eclipse/eclipse.jdt.core/tree/v20130226-162037"
data-name="v20130226-162037"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130226-162037">
    v20130226-162037
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130226-092855"
data-name="v20130226-092855"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130226-092855">
    v20130226-092855
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130225-174949"
data-name="v20130225-174949"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130225-174949">
    v20130225-174949
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130225-173759"
data-name="v20130225-173759"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130225-173759">
    v20130225-173759
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130225-1000"
data-name="v20130225-1000"
data-skip-pjax="true"
rel="nofollow">

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    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20130225-1000">
      v20130225-1000
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20130219-103256"
    data-name="v20130219-103256"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20130219-103256">
      v20130219-103256
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20130218-133805"
    data-name="v20130218-133805"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20130218-133805">
      v20130218-133805
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20130211-213845"
    data-name="v20130211-213845"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20130211-213845">
      v20130211-213845
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20130204-152513"
    data-name="v20130204-152513"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20130204-152513">
      v20130204-152513

```

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</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130204-152300"
  data-name="v20130204-152300"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130204-152300">
    v20130204-152300
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130129-050623"
  data-name="v20130129-050623"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130129-050623">
    v20130129-050623
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130128-122010"
  data-name="v20130128-122010"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130128-122010">
    v20130128-122010
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130125-152858"
  data-name="v20130125-152858"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130125-152858">
    v20130125-152858
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130124-092006"

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data-name="v20130124-092006"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130124-092006">
v20130124-092006
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130122-193356"
data-name="v20130122-193356"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130122-193356">
v20130122-193356
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130122-095742"
data-name="v20130122-095742"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130122-095742">
v20130122-095742
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open selected"
href="/eclipse/eclipse.jdt.core/tree/v20130121-145634"
data-name="v20130121-145634"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20130121-145634">
v20130121-145634
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130121-145325"
data-name="v20130121-145325"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130121-145325">
    v20130121-145325
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130118-060215"
  data-name="v20130118-060215"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130118-060215">
    v20130118-060215
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130116-050536"
  data-name="v20130116-050536"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130116-050536">
    v20130116-050536
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130116-045730"
  data-name="v20130116-045730"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130116-045730">
    v20130116-045730
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130111-142029"
  data-name="v20130111-142029"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130111-142029">
    v20130111-142029
  </span>
</a>

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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130111-135246"
  data-name="v20130111-135246"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130111-135246">
    v20130111-135246
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130108-100605"
  data-name="v20130108-100605"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130108-100605">
    v20130108-100605
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130103-180139"
  data-name="v20130103-180139"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130103-180139">
    v20130103-180139
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130101-052339"
  data-name="v20130101-052339"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130101-052339">
    v20130101-052339
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20130101-050921"
  data-name="v20130101-050921"

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data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20130101-050921">
    v20130101-050921
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121219-000101"
data-name="v20121219-000101"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121219-000101">
    v20121219-000101
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121208-144805"
data-name="v20121208-144805"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121208-144805">
    v20121208-144805
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121204-104537"
data-name="v20121204-104537"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121204-104537">
    v20121204-104537
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121130-045307"
data-name="v20121130-045307"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>

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<span class="select-menu-item-text css-truncate-target" title="v20121130-045307">
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<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121130-042559"
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  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121130-042559">
    v20121130-042559
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121122-152232"
  data-name="v20121122-152232"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20121122-152232
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121116-083411"
  data-name="v20121116-083411"
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  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121116-083411">
    v20121116-083411
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121115-130939"
  data-name="v20121115-130939"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121115-130939">
    v20121115-130939
  </span>
</a>

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<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121115-051829"
  data-name="v20121115-051829"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121115-051829">
    v20121115-051829
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121115-051757"
  data-name="v20121115-051757"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121115-051757">
    v20121115-051757
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121113-214804"
  data-name="v20121113-214804"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121113-214804">
    v20121113-214804
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121109-093838"
  data-name="v20121109-093838"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121109-093838">
    v20121109-093838
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20121030-185216"
  data-name="v20121030-185216"
  data-skip-pjax="true"

```

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rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121030-185216">
    v20121030-185216
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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121025-162051"
data-name="v20121025-162051"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121025-162051">
    v20121025-162051
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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121018-174753"
data-name="v20121018-174753"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20121018-174753
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20121018-160047"
data-name="v20121018-160047"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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</a>
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href="/eclipse/eclipse.jdt.core/tree/v20121016-090603"
data-name="v20121016-090603"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20121016-090603">

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v20121016-090603
</span>
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<a class="select-menu-item js-navigation-item js-navigation-open "
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rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20120926-202346">
v20120926-202346
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v20120925-084337"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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v20120925-084337
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v20120916-214337
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</a>
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data-name="v20120916-160039"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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v20120916-160039
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

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href="/eclipse/eclipse.jdt.core/tree/v20120906-165038"
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120906-165038">
    v20120906-165038
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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20120828-144620"
data-name="v20120828-144620"
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rel="nofollow">
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  </span>
</a>
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rel="nofollow">
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</a>
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120818-170201
  </span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120818-030549"
data-name="v20120818-030549"
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rel="nofollow">

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```

    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
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      v20120818-030549
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    data-skip-pjax="true"
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      v20120814-155456
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-name="v20120814-003434"
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    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20120814-003434">
      v20120814-003434
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120809-105805"
    data-name="v20120809-105805"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      v20120809-105805
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120808-155455"
    data-name="v20120808-155455"
    data-skip-pjax="true"
    rel="nofollow">
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      v20120808-155455

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</span>
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<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-skip-pjax="true"
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120808-112019">
    v20120808-112019
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120808-095233"
  data-name="v20120808-095233"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120808-095233
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120808-063259"
  data-name="v20120808-063259"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120808-063259">
    v20120808-063259
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120807-125035"
  data-name="v20120807-125035"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120807-125035
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120806-091125"

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data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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v20120806-091125
</span>
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<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20120806-083024"
data-name="v20120806-083024"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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v20120806-083024
</span>
</a>
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data-name="v20120802-131734"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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v20120802-131734
</span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120802-065627"
data-name="v20120802-065627"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="v20120802-065627">
v20120802-065627
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20120731-185758"
data-name="v20120731-185758"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120731-185758">
    v20120731-185758
  </span>
</a>
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  href="/eclipse/eclipse.jdt.core/tree/v20120731-100053"
  data-name="v20120731-100053"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120731-100053">
    v20120731-100053
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120730-201713"
  data-name="v20120730-201713"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120730-201713">
    v20120730-201713
  </span>
</a>
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  href="/eclipse/eclipse.jdt.core/tree/v20120730-111738"
  data-name="v20120730-111738"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120730-111738">
    v20120730-111738
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120728-150915"
  data-name="v20120728-150915"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120728-150915">
    v20120728-150915
  </span>
</a>

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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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  data-name="v20120728-150402"
  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120728-150402">
    v20120728-150402
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120728-095341"
  data-name="v20120728-095341"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120728-095341">
    v20120728-095341
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120725-181921"
  data-name="v20120725-181921"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120725-181921
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120724-000238"
  data-name="v20120724-000238"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120724-000238">
    v20120724-000238
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120723-063905"
  data-name="v20120723-063905"

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data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120723-063905">
    v20120723-063905
  </span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120720-104301"
data-name="v20120720-104301"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120720-104301">
    v20120720-104301
  </span>
</a>
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data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120720-102920">
    v20120720-102920
  </span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120719-191127"
data-name="v20120719-191127"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120719-191127">
    v20120719-191127
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20120716-122243"
data-name="v20120716-122243"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
```

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    <span class="select-menu-item-text css-truncate-target" title="v20120716-122243">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      v20120716-092013
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
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    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20120713-105847">
      v20120713-105847
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120711-200721"
    data-name="v20120711-200721"
    data-skip-pjax="true"
    rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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      v20120711-200721
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120709-162439"
    data-name="v20120709-162439"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="v20120709-162439">
      v20120709-162439
    </span>
  </a>

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  data-skip-pjax="true"
  rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120709-070331
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120705-160103"
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  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120705-160103">
    v20120705-160103
  </span>
</a>
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    v20120705-135338
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</a>
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  data-skip-pjax="true"
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</a>
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rel="nofollow">
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</a>
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data-name="v20120628-092129"
data-skip-pjax="true"
rel="nofollow">
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    v20120628-092129
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v20120531-0637"
data-skip-pjax="true"
rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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    v20120531-0637
  </span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120529-1704"
data-name="v20120529-1704"
data-skip-pjax="true"
rel="nofollow">
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    v20120529-1704
  </span>
</a>
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data-name="v20120529-1424"
data-skip-pjax="true"
rel="nofollow">
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viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target" title="v20120529-1424">

```



```
        v20120529-1424
      </span>
    </a>
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      <span class="select-menu-item-text css-truncate-target" title="v20120529-0904">
        v20120529-0904
      </span>
    </a>
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      href="/eclipse/eclipse.jdt.core/tree/v20120523-1356"
      data-name="v20120523-1356"
      data-skip-pjax="true"
      rel="nofollow">
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        v20120523-1356
      </span>
    </a>
  </div>

  <div class="select-menu-no-results">Nothing to show</div>
</div>

</div>
</div>
</div>

  <button type="button" class="btn btn-sm btn-primary disabled tooltiped tooltiped-n new-pull-request-btn"
aria-label="You must be signed in to create a pull request">
    New pull request
  </button>

  <div class="breadcrumb">

</div>
</div>
```

```

<include-fragment class="commit-tease commit-loader" src="/eclipse/eclipse.jdt.core/tree-
commit/a26aba2e7e85e676db505fc02a028d4706993df5">
  <div class="blank">
    
    Fetching latest commit...
  </div>
  <div class="loader-error">
    Cannot retrieve the latest commit at this time.
  </div>
</include-fragment>

<include-fragment class="file-wrap" src="/eclipse/eclipse.jdt.core/file-list/v20130121-145634">

<a href="/eclipse/eclipse.jdt.core/tree/a26aba2e7e85e676db505fc02a028d4706993df5" class="hidden js-permalink-
shortcut" data-hotkey="y">Permalink</a>

<table class="files js-navigation-container js-active-navigation-container" data-pjax>

  <tbody>
    <tr class="warning include-fragment-error">
      <td class="icon"><svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0
0 16 16" width="16"><path d="M15.72 12.51-6.85-11.98C8.69 0.21 8.36 0.02 8 0.02s-0.69 0.19-0.87 0.51-6.85
11.98c-0.18 0.31-0.18 0.69 0 1C0.47 13.81 0.8 14 1.15 14h13.7c0.36 0 0.69-0.19 0.86-0.5S15.89 12.81 15.72
12.5zM9 12H7V10h2V12zM9 9H7V5h2V9z"></path></svg></td>
      <td class="content" colspan="3">Failed to load latest commit information.</td>
    </tr>

    <tr class="js-navigation-item">
      <td class="icon">
        <svg aria-hidden="true" class="octicon octicon-file-directory" height="16" version="1.1" viewBox="0 0 14
16" width="14"><path d="M13 4H7v-1c0-0.66-0.31-1-1-1H1c-0.55 0-1 0.45-1 1v10c0 0.55 0.45 1 1 1h12c0.55 0
1-0.45 1-1V5c0-0.55-0.45-1-1-1z m-7 0H1v-1h5v1z"></path></svg>
        
      </td>
      <td class="content">
        <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-
145634/org.eclipse.jdt.annotation" class="js-navigation-open" id="64f3e6173642fe7e4d0d5eb79ae82682-
d75a8e66c8c2fa41a6e20f2fa029614a28715bc5"
title="org.eclipse.jdt.annotation">org.eclipse.jdt.annotation</a></span>
      </td>
      <td class="message">
        <span class="css-truncate css-truncate-target">
        </span>
      </td>
      <td class="age">

```

```

    <span class="css-truncate css-truncate-target"></span>
  </td>
</tr>
<tr class="js-navigation-item">
  <td class="icon">
    <svg aria-hidden="true" class="octicon octicon-file-directory" height="16" version="1.1" viewBox="0 0 14
16" width="14"><path d="M13 4H7v-1c0-0.66-0.31-1-1-1H1c-0.55 0-1 0.45-1 1v10c0 0.55 0.45 1 1 1h12c0.55 0
1-0.45 1-1V5c0-0.55-0.45-1-1-1z m-7 0H1v-1h5v1z"></path></svg>
    
  </td>
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</td>
<td class="age">
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0.45 1-1 1H1c-0.55 0-1-0.45-1-1V2c0-0.55 0.45-1 1-1h7.5l3.5 3.5z m-1 0.5L8 2H1v12h10V5z"></path></svg>
    
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<td class="content">
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0.45 1-1 1H1c-0.55 0-1-0.45-1-1V2c0-0.55 0.45-1 1-1h7.5l3.5 3.5z m-1 0.5L8 2H1v12h10V5z"></path></svg>
  
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m0 2H9v1h4v-1z m2-6v9c0 0.55-0.45 1-1 1H8.5l-1 1-1-1H1c-0.55 0-1-0.45-1-1V3c0-0.55 0.45-1 1-1h5.5l1 1-
1h5.5c0.55 0 1 0.45 1 1z m-8 0.5l-0.5-0.5H1v9h6V3.5z m7-0.5H8.5l-0.5 0.5v8.5h6V3z"></path></svg>
    README.md

```

</h3>

<article class="markdown-body entry-content" itemprop="text"><h1><a id="user-content-jdt-core" class="anchor" href="#jdt-core" aria-hidden="true"><svg aria-hidden="true" class="octicon octicon-link" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path d="M4 9h1v1h-1c-1.5 0-3-1.69-3-3.5s1.55-3.5 3-3.5h4c1.45 0 3 1.69 3 3.5 0 1.41-0.91 2.72-2 3.25v-1.16c0.58-0.45 1-1.27 1-2.09 0-1.28-1.02-2.5-2-2.5H4c-0.98 0-2 1.22-2 2.5s1 2.5 2 2.5z m9-3h-1v1h1c1 0 2 1.22 2 2.5s-1.02 2.5-2 2.5H9c-0.98 0-2 1.22-2 2.5 0-0.83 0.42-1.64 1-2.09v-1.16c-1.09 0.53-2 1.84-2 3.25 0 1.81 1.55 3.5 3 3.5h4c1.45 0 3-1.69 3-3.5s-1.5-3.5-3-3.5z"></path></svg></a>JDT Core</h1>

<p>This is the core part of Eclipse's Java development tools. It contains the non-UI support for compiling and working with Java code, including the following:</p>

- <li>an incremental or batch Java compiler that can run standalone or as part of the Eclipse IDE</li>
- <li>Java source and class file indexer and search infrastructure</li>
- <li>a Java source code formatter</li>
- <li>APIs for code assist, access to the AST and structured manipulation of Java source.</li>

<p>For more information, refer to the <a href="http://wiki.eclipse.org/JDT\_Core">JDT wiki page</a> or the <a href="http://www.eclipse.org/projects/project.php?id=eclipse.jdt.core">JDT project overview page</a>.</p>

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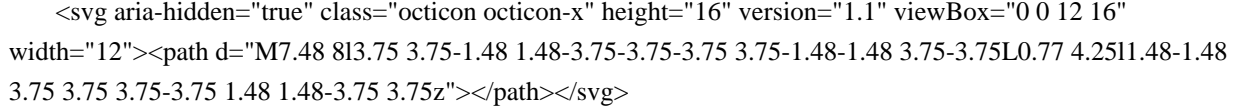
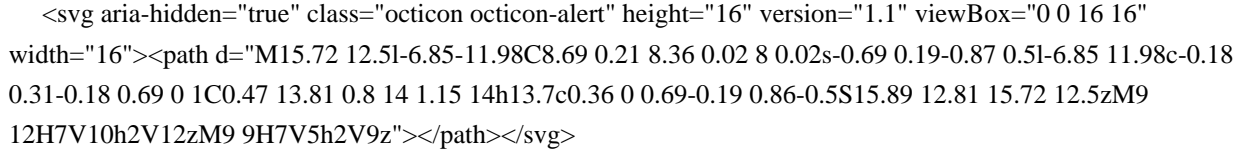
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Daniel Savarese <[dfs at savarese.org](mailto:dfs@savarese.org)> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

Jon Stevens <[jon at collab.net](mailto:jon@collab.net)> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

Takashi Okamoto <[tokamoto at rd.nttdata.co.jp](mailto:tokamoto@rd.nttdata.co.jp)> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <[markm at tyrell.com](mailto:markm@tyrell.com)> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <[michael.davey at codera.org](mailto:michael.davey@codera.org)> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald at ontopia.net](mailto:harald@ontopia.net)> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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```
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```

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```
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```

```
*/
```

```
/*
```

```
* OpenSSL doesn't provide a userland tool for PBKDF2.
```

```
*
```

```
* I recently needed this for supplying Crashplan my own encryption key
```

```
* for its Blowfish cipher.
```

```
*
```

```
* Sadly I realized their passphrase implementation was simply padding the
```

```
* password to 448-bits and storing it in base64. Sigh...
```

```
*
```

```
* This small piece of code gets password, salt, number of iterations and
```

```
* desired key length in bytes and outputs HMAC SHA1 backed PBKDF2 function
```

```
* output to stdout as binary.
```

```
*
```

```
* Use pipes or shell i/o redirection to make the output useful.
```

```
*
```

```
* e.g.
```

```
* % pbkdf2 password salt 1024 56 > bf448.key
```

```
*
```

```
* % pbkdf2 password salt 1024 56 | openssl base64
```

```
*
```

```
*/
```

```
#include <err.h>
```

```
#include <errno.h>
```

```
#include <stdlib.h>
```

```
#include <unistd.h>
```

```
#include <string.h>
```

```
#include <openssl/evp.h>
```

```
#include <keyutils.h>
```

```
int
```

```
main(int argc, char *argv[])
```

```
{
```

```
    const char *usage = "usage: %s <password> <salt> <iterations> <keylen>";
```

```
    const char *errstr_notint = "\\\"%s\\\" is not a decimal integer.";
```

```

unsigned char *out;
const char *passname, *saltname;
char salt[64], pass[64];
int iter, keylen;

long salt_serial, pass_serial;

if (argc != 5)
    errx(1, usage, argv[0]);

passname = argv[1];
// Salt values are stored in the kernel
saltname = argv[2];

memset( salt, 0, 64 );
memset( pass, 0, 64 );

// Get the password from the user key ring
pass_serial = find_key_by_type_and_desc( "user", passname, 0 );
if( pass_serial===-1 ){
    printf( "Cant find password %s (%d)", passname, errno );
    exit( 1 );
}
if( keyctl_read( pass_serial, pass, 64 )===-1 ){
    printf( "Cant read password %s (%d)", passname, errno );
    exit( 1 );
}

// Get the salt from the user key ring
salt_serial = find_key_by_type_and_desc( "user", saltname, 0 );
if( salt_serial===-1 ){
    printf( "Cant find salt %s (%d)", saltname, errno );
    exit( 1 );
}
if( keyctl_read( salt_serial, salt, 64 )===-1 ){
    printf( "Cant read salt %s (%d)", saltname, errno );
    exit( 1 );
}

iter = (int)strtol(argv[3], (char **)NULL, 10);
keylen = (int)strtol(argv[4], (char **)NULL, 10);

if (errno != 0) { /* strtol failed */
    if (iter == 0)
        warnx(errstr_notint, argv[3]);
    if (keylen == 0)
        warnx(errstr_notint, argv[4]);
}

```

```

    errx(1, usage, argv[0]);
}

out = malloc(keylen);
if (out == NULL)
    err(1, "Couldn't allocate memory.");

/* always returns 1 */
PKCS5_PBKDF2_HMAC_SHA1(pass, strlen(pass),
    (const unsigned char *) salt, strlen(salt),
    iter, keylen,
    out);

if (write(1, out, keylen) == -1)
    return 1;
else
    return 0;
}

```

## 1.205 pciutils 3.3.1

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Version 2, June 1991

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## 1.206 perl 5.22.0

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

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

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

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

```
=cut
```

```
use TestInit;
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require 'test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

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

    $year;
}

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

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

```

\$year;  
}

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Version 1, February 1989

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```

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```

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Ty Coon, President of Vice

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

-----  
---  
abstract: 'Build and install Perl modules'  
author:  
- 'Ken Williams <kwilliams@cpan.org>'  
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."  
build\_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated\_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
resources:  
MailingList: <mailto:module-build@perl.org>  
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repository: <http://github.com/dagolden/module-build/>  
version: 3  
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The End

## 1.207 pinentry 0.9.2

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## 1.208 polycoreutils 2.4

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## 1.209 popt 1.16

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# 1.211 procps 3.3.10

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

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

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1.3 thru	1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no	
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1.6.1	1.6	2001	CNRI	yes (2)	
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2.1.1	2.1+2.0.1	2001	PSF	yes	
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## 1.219 python-paramiko 1.15.2

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Last updated: 2009-02-28

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## 1.224 python-setuptools 18.2

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```
#!/usr/bin/env python
"""
Distutils setup file, used to install or test 'setuptools'
"""

import io
import os
import sys
import textwrap

# Allow to run setup.py from another directory.
os.chdir(os.path.dirname(os.path.abspath(__file__)))

src_root = None

from distutils.util import convert_path

command_ns = { }
```

```

init_path = convert_path('setuptools/command/__init__.py')
with open(init_path) as init_file:
    exec(init_file.read(), command_ns)

SETUP_COMMANDS = command_ns['__all__']

main_ns = {}
ver_path = convert_path('setuptools/version.py')
with open(ver_path) as ver_file:
    exec(ver_file.read(), main_ns)

import setuptools

scripts = []

def _gen_console_scripts():
    yield "easy_install = setuptools.command.easy_install:main"

    # Gentoo distributions manage the python-version-specific scripts
    # themselves, so those platforms define an environment variable to
    # suppress the creation of the version-specific scripts.
    var_names = (
        'SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT',
        'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT',
    )
    if any(os.environ.get(var) not in (None, "", "0") for var in var_names):
        return
    yield ("easy_install-{shortver} = setuptools.command.easy_install:main"
          .format(shortver=sys.version[:3]))

console_scripts = list(_gen_console_scripts())

readme_file = io.open('README.txt', encoding='utf-8')

with readme_file:
    long_description = readme_file.read()

package_data = {
    'setuptools': ['script (dev).tmpl', 'script.tmpl', 'site-patch.py']}
force_windows_specific_files = (
    os.environ.get("SETUPTOOLS_INSTALL_WINDOWS_SPECIFIC_FILES")
    not in (None, "", "0")
)
if sys.platform == 'win32' or force_windows_specific_files:
    package_data.setdefault('setuptools', []).extend(['*.exe'])
    package_data.setdefault('setuptools.command', []).extend(['*.xml'])

needs_pytest = set(['ptr', 'pytest', 'test']).intersection(sys.argv)

```



```

pytest_runner = ['pytest-runner'] if needs_pytest else []
needs_sphinx = set(['build_sphinx', 'upload_docs']).intersection(sys.argv)
sphinx = ['sphinx', 'rst.linker'] if needs_sphinx else []

setup_params = dict(
    name="setuptools",
    version=main_ns['__version__'],
    description="Easily download, build, install, upgrade, and uninstall "
        "Python packages",
    author="Python Packaging Authority",
    author_email="distutils-sig@python.org",
    license="PSF or ZPL",
    long_description=long_description,
    keywords="CPAN PyPI distutils eggs package management",
    url="https://bitbucket.org/pypa/setuptools",
    src_root=src_root,
    packages=setuptools.find_packages(exclude=['*.tests']),
    package_data=package_data,

    py_modules=['easy_install'],

    zip_safe=True,

    entry_points={
        "distutils.commands": [
            "%(cmd)s = setuptools.command.%(cmd)s:%(cmd)s" % locals()
            for cmd in SETUP_COMMANDS
        ],
        "distutils.setup_keywords": [
            "eager_resources      = setuptools.dist:assert_string_list",
            "namespace_packages  = setuptools.dist:check_nsp",
            "extras_require      = setuptools.dist:check_extras",
            "install_requires    = setuptools.dist:check_requirements",
            "tests_require       = setuptools.dist:check_requirements",
            "setup_requires      = setuptools.dist:check_requirements",
            "entry_points        = setuptools.dist:check_entry_points",
            "test_suite          = setuptools.dist:check_test_suite",
            "zip_safe            = setuptools.dist:assert_bool",
            "package_data       = setuptools.dist:check_package_data",
            "exclude_package_data = setuptools.dist:check_package_data",
            "include_package_data = setuptools.dist:assert_bool",
            "packages           = setuptools.dist:check_packages",
            "dependency_links    = setuptools.dist:assert_string_list",
            "test_loader         = setuptools.dist:check_importable",
            "test_runner         = setuptools.dist:check_importable",
            "use_2to3            = setuptools.dist:assert_bool",
            "convert_2to3_doctests = setuptools.dist:assert_string_list",
            "use_2to3_fixers     = setuptools.dist:assert_string_list",

```

```

    "use_2to3_exclude_fixers = setuptools.dist:assert_string_list",
],
"egg_info.writers": [
    "PKG-INFO = setuptools.command.egg_info:write_pkg_info",
    "requires.txt = setuptools.command.egg_info:write_requirements",
    "entry_points.txt = setuptools.command.egg_info:write_entries",
    "eager_resources.txt = setuptools.command.egg_info:overwrite_arg",
    "namespace_packages.txt = setuptools.command.egg_info:overwrite_arg",
    "top_level.txt = setuptools.command.egg_info:write_toplevel_names",
    "depends.txt = setuptools.command.egg_info:warn_depends_obsolete",
    "dependency_links.txt = setuptools.command.egg_info:overwrite_arg",
],
"console_scripts": console_scripts,

"setuptools.installation":
    ['eggsecutable = setuptools.command.easy_install:bootstrap'],
},

```

```

classifiers=textwrap.dedent("""
    Development Status :: 5 - Production/Stable
    Intended Audience :: Developers
    License :: OSI Approved :: Python Software Foundation License
    License :: OSI Approved :: Zope Public License
    Operating System :: OS Independent
    Programming Language :: Python :: 2.6
    Programming Language :: Python :: 2.7
    Programming Language :: Python :: 3
    Programming Language :: Python :: 3.1
    Programming Language :: Python :: 3.2
    Programming Language :: Python :: 3.3
    Programming Language :: Python :: 3.4
    Topic :: Software Development :: Libraries :: Python Modules
    Topic :: System :: Archiving :: Packaging
    Topic :: System :: Systems Administration
    Topic :: Utilities
    """).strip().splitlines(),
extras_require={
    "ssl:sys_platform=='win32'": "wincertstore==0.2",
    "certs": "certifi==1.0.1",
},
dependency_links=[
    'https://pypi.python.org/packages/source/c/certifi/certifi-1.0.1.tar.gz#md5=45f5cb94b8af9e1df0f9450a8f61b790',
    'https://pypi.python.org/packages/source/w/wincertstore/wincertstore-0.2.zip#md5=ae728f2f007185648d0c7a8679b361e2',
],
scripts=[],

```

```
tests_require=[
    'setuptools[ssl]',
    'pytest',
] + ([ 'mock' ] if sys.version_info[:2] < (3, 3) else []),
setup_requires=[
] + sphinx + pytest_runner,
)

if __name__ == '__main__':
    dist = setuptools.setup(**setup_params)
```

## 1.225 Quartz 1.5.2

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JAVA TRANSACTION API (JTA), VERSION 1.0.1B, MAINTENANCE RELEASE

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#### JAVASERVLET, VERSION 2.3

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```

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```

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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```
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```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
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# 1.232 rsyslog 7.4.4

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

```
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```

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Version 3, 29 June 2007

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## 1.233 saaj-impl 1.3.25

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- \*/

# 1.234 scala-compiler 2.10.0

## 1.234.1 Available under license :

```

<!DOCTYPE html>
<html>
<head>

<title>Scala License | The Scala Programming Language</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

<link rel="icon" type="image/png" href="/resources/favicon.ico">
<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">

<!-- prettify CSS (corresponding js at footer)-->
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />

<link href='http://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>

<!-- Custom stylesheet -->
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

<!-- Typekit (should stay at top of page, do not move to footer)-->

```

```

<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

</head>
<body>

<div class="darkstrip"></div>

<div class="darkbluetopbar">
<div class="container" style="height: 100%">
  <div class="navbar-wrap">
    <div class="container" style="position: relative; height: 100%;">
      <div class="scala-logo">
        <a href="/index.html"></a>
      </div>
      <ul class="nav">
<li><a href="/documentation/">Documentation</a></li>
<li><a href="/download/">Download</a></li>
<li><a href="/community/">Community</a></li>
<li><a href="/contribute/">Contribute</a></li>
<li id="source-code" >
  <a href="http://github.com/scala/scala"></a>
  <div class="toptip">Source Code</div>
</li>
<li id="scala-lang-twitter">
  <a href="http://twitter.com/scala_lang"></a>
  <div class="toptip">Scala on Twitter</div>
</li>
</ul>

    </div>
  </div>
</div>
</div>

<div class="midbluebar">
<div class="container">
  <h1 id="page-title">Scala License</h1>
</div>
</div>

<div class="page-container">
<div class="container" style="min-height: 540px;">
  <!-- <div class="row"> -->
  <!-- <div class="span12"> -->
    <div class="main-page-column">

```

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```
</div>  
<div class="sidebar">  
  <div class="sidebar-inner">  
    </div>  
  </div>  
<div style="clear:both"></div>  
<!-- </div> -->  
<!-- </div> -->  
</div>  
</div>
```

```
<div class="footer">  
<div class="container">  
  <ul>  
    <li><h5>Documentation</h5></li>
```

```

<li><a href="/documentation/getting-started.html">Getting Started</a></li>
<li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
<li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
<li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
<li><a href="/files/archive/spec/2.11/">Language Specification</a></li>
</ul>
<ul>
<li><h5>Download</h5></li>
<li><a href="/download/">Stable Release</a></li>
<li><a href="/download/2.12.0-M4.html">Development Release</a></li>
</ul>
<ul>
<li><h5>Community</h5></li>
<li><a href="/community/">Community</a></li>
<li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
<li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
<li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
</ul>
<ul>
<li><h5>Contribute</h5></li>
<li><a href="/contribute">How to Help</a></li>
<li><a href="/contribute/bug-reporting-guide.html">Report an Issue</a></li>
</ul>
<ul>
<li><h5>Scala</h5></li>
<li><a href="/blog">Blog</a></li>
<li><a href="/news">Archive</a></li>
<li><a href="/conduct.html">Code of Conduct</a></li>
<li><a href="/license.html">License</a></li>
</ul>
</div>
<div class="container">
<div class="copyright">
<a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"></a>
<p style="float: left;"><br/>Copyright &copy; 2002-<span class="current-year"></span> École Polytechnique
Fédérale de Lausanne
(EPFL)<br/> Lausanne, Switzerland</p>
</div>
<div class="scala-logo-footer">

</div>
</div> <!-- container -->
</div> <!-- footer -->

<!-- prettify js -->
<script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

```

```

<!-- jquery js -->
<script src="/resources/js/vendor/jquery-1.8.3.min.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/jquery.stellar.min.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/tweetMachine.min.js" type="text/javascript" ></script>

<!-- modernizr js -->
<script src="/resources/js/vendor/modernizr-2.6.2-respond-1.1.0.min.js" type="text/javascript" ></script>

<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

<!-- backstretch js -->
<script src="/resources/js/vendor/jquery.backstretch.min.js" type="text/javascript" ></script>

<!-- Bootstrap JS -->
<script src="/resources/js/vendor/bootstrap.min.js" type="text/javascript" ></script>

<!-- table of contents JS -->
<script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
<script type="text/javascript">
$(document).ready(function(){
    $('#toc').toc({exclude: 'h1, h5, h6', context: "", autoId: true, numerate: false});
    function moveScroller() {
        if ($.sidebar).length == 0)
            return;
        var a = function() {
            var topOfScroll = $(window).scrollTop();
            var topOfSidebar = $(".sidebar").offset().top;
            var sidebarInner = $(".sidebar-inner");
            var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
            var topOfFooter = $(".footer").offset().top - 10;
            var footerHeight = $(".footer").outerHeight();
            if (topOfScroll > topOfSidebar) {
                if (bottomOfSidebarInner > topOfFooter) {
                    sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
                } else {
                    sidebarInner.css({position:"fixed",top:"10px",bottom:""});
                }
            } else {
                sidebarInner.css({position:"relative",top:""});
            }
        };
        $(window).scroll(a);a()
    }
    moveScroller();
})

```



```
</script>

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
</html>
```

## 1.235 sed 4.2.2

### 1.235.1 Available under license :

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Version 3, 29 June 2007

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## 1.239 sepolgen 1.2.1

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## 1.240 setools 3.3.8

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## 1.242 shared-mime-info 1.4

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## 1.244 sox 14.4.1

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*
* @(#)glob.c 8.3 (Berkeley) 10/13/93
*/

/*
* glob(3) -- a superset of the one defined in POSIX 1003.2.
*
* The [!...] convention to negate a range is supported (SysV, Posix, ksh).
*
* Optional extra services, controlled by flags not defined by POSIX:
*
* GLOB_MAGCHAR:
* Set in gl_flags if pattern contained a globbing character.
* GLOB_TILDE:
* expand ~user/foo to the /home/dir/of/user/foo
* GLOB_BRACE:
* expand {1,2}{a,b} to 1a 1b 2a 2b
* gl_matchc:
* Number of matches in the current invocation of glob.
*/

#include <config.h>

#ifdef HAVE_GLOB

#include <sys/types.h>
#include <sys/stat.h>

#include <stdio.h>
#include <stdlib.h>
#ifdef HAVE_STRING_H

```

```

#include <string.h>
#endif /* HAVE_STRING_H */
#ifdef HAVE_STRINGS_H
#include <strings.h>
#endif /* HAVE_STRINGS_H */
#include <unistd.h>
#if defined(HAVE_STDINT_H)
#include <stdint.h>
#elif defined(HAVE_INTTYPES_H)
#include <inttypes.h>
#endif
#include <ctype.h>
#include <dirent.h>
#include <errno.h>
#include <limits.h>
#include <pwd.h>

#include "sudo_compat.h"
#include "compat/glob.h"
#include "compat/charclass.h"

#define DOLLAR '$'
#define DOT '.'
#define EOS '\0'
#define LBRACKET '['
#define NOT '!'
#define QUESTION '?'
#define QUOTE '\\"
#define RANGE '-'
#define RBRACKET ']'
#define SEP '/'
#define STAR '*'
#define TILDE '~'
#define UNDERSCORE '_'
#define LBRACE '{'
#define RBRACE '}'
#define SLASH '/'
#define COMMA ','

#ifndef DEBUG

#define M_QUOTE 0x8000
#define M_PROTECT 0x4000
#define M_MASK 0xffff
#define M_ASCII 0x00ff

typedef unsigned short Char;

```



```

#else

#define M_QUOTE 0x80
#define M_PROTECT 0x40
#define M_MASK 0xff
#define M_ASCII 0x7f

typedef char Char;

#endif

#define CHAR(c) ((Char)((c)&M_ASCII))
#define META(c) ((Char)((c)|M_QUOTE))
#define M_ALL META('*')
#define M_END META(']')
#define M_NOT META('!')
#define M_ONE META('?')
#define M_RNG META('-')
#define M_SET META('[')
#define M_CLASS META(':')
#define ismeta(c) (((c)&M_QUOTE) != 0)

#define GLOB_LIMIT_MALLOC 65536
#define GLOB_LIMIT_STAT 2048
#define GLOB_LIMIT_READDIR 16384

/* Limit of recursion during matching attempts. */
#define GLOB_LIMIT_RECUR 64

struct glob_lim {
    size_t glim_malloc;
    size_t glim_stat;
    size_t glim_readdir;
};

static int compare(const void *, const void *);
static int g_Ctoc(const Char *, char *, unsigned int);
static int g_lstat(Char *, struct stat *, glob_t *);
static DIR *g_opendir(Char *, glob_t *);
static Char *g_strchr(const Char *, int);
static int g_strncmp(const Char *, const char *, size_t);
static int g_stat(Char *, struct stat *, glob_t *);
static int glob0(const Char *, glob_t *, struct glob_lim *);
static int glob1(Char *, Char *, glob_t *, struct glob_lim *);
static int glob2(Char *, Char *, Char *, Char *, Char *, Char *,
    glob_t *, struct glob_lim *);
static int glob3(Char *, Char *, Char *, Char *, Char *,

```

```

    Char *, Char *, glob_t *, struct glob_lim *);
static int globextend(const Char *, glob_t *, struct glob_lim *,
    struct stat *);
static const Char *
    globtilde(const Char *, Char *, size_t, glob_t *);
static int globexp1(const Char *, glob_t *, struct glob_lim *);
static int globexp2(const Char *, const Char *, glob_t *,
    struct glob_lim *);
static int match(Char *, Char *, Char *, int);
#ifdef DEBUG
static void qprintf(const char *, Char *);
#endif

int
sudo_glob(const char *pattern, int flags, int (*errfunc)(const char *, int),
    glob_t *pglob)
{
    const unsigned char *patnext;
    int c;
    Char *bufnext, *bufend, patbuf[PATH_MAX];
    struct glob_lim limit = { 0, 0, 0 };

    patnext = (unsigned char *) pattern;
    if (!(flags & GLOB_APPEND)) {
        pglob->gl_pathc = 0;
        pglob->gl_pathv = NULL;
        if (!(flags & GLOB_DOOFFS))
            pglob->gl_offs = 0;
    }
    pglob->gl_flags = flags & ~GLOB_MAGCHAR;
    pglob->gl_errfunc = errfunc;
    pglob->gl_matchc = 0;

    if (pglob->gl_offs < 0 || pglob->gl_pathc < 0 ||
        pglob->gl_offs >= INT_MAX || pglob->gl_pathc >= INT_MAX ||
        pglob->gl_pathc >= INT_MAX - pglob->gl_offs - 1)
        return GLOB_NOSPACE;

    if (strlen(pattern, PATH_MAX) == PATH_MAX)
        return GLOB_NOMATCH;

    bufnext = patbuf;
    bufend = bufnext + PATH_MAX - 1;
    if (flags & GLOB_NOESCAPE)
        while (bufnext < bufend && (c = *patnext++) != EOS)
            *bufnext++ = c;
    else {
        /* Protect the quoted characters. */

```

```

while (bufnext < bufend && (c = *patnext++) != EOS)
if (c == QUOTE) {
if ((c = *patnext++) == EOS) {
c = QUOTE;
--patnext;
}
*bufnext++ = c | M_PROTECT;
} else
*bufnext++ = c;
}
*bufnext = EOS;

if (flags & GLOB_BRACE)
return globexp1(patbuf, pglob, &limit);
else
return glob0(patbuf, pglob, &limit);
}

/*
* Expand recursively a glob { } pattern. When there is no more expansion
* invoke the standard globbing routine to glob the rest of the magic
* characters
*/
static int
globexp1(const Char *pattern, glob_t *pglob, struct glob_lim *limitp)
{
const Char* ptr = pattern;

/* Protect a single {}, for find(1), like csh */
if (pattern[0] == LBRACE && pattern[1] == RBRACE && pattern[2] == EOS)
return glob0(pattern, pglob, limitp);

if ((ptr = (const Char *) g_strchr(ptr, LBRACE)) != NULL)
return globexp2(ptr, pattern, pglob, limitp);

return glob0(pattern, pglob, limitp);
}

/*
* Recursive brace globbing helper. Tries to expand a single brace.
* If it succeeds then it invokes globexp1 with the new pattern.
* If it fails then it tries to glob the rest of the pattern and returns.
*/
static int
globexp2(const Char *ptr, const Char *pattern, glob_t *pglob,
struct glob_lim *limitp)
{

```

```

int i, rv;
Char *lm, *ls;
const Char *pe, *pm, *pl;
Char patbuf[PATH_MAX];

/* copy part up to the brace */
for (lm = patbuf, pm = pattern; pm != ptr; *lm++ = *pm++)
    continue;
*lm = EOS;
ls = lm;

/* Find the balanced brace */
for (i = 0, pe = ++ptr; *pe; pe++)
    if (*pe == LBRACKET) {
        /* Ignore everything between [] */
        for (pm = pe++; *pm != RBRACKET && *pm != EOS; pe++)
            continue;
        if (*pe == EOS) {
            /*
             * We could not find a matching RBRACKET.
             * Ignore and just look for RBRACE
             */
            pe = pm;
        }
    } else if (*pe == LBRACE)
        i++;
    else if (*pe == RBRACE) {
        if (i == 0)
            break;
        i--;
    }

/* Non matching braces; just glob the pattern */
if (i != 0 || *pe == EOS)
    return glob0(patbuf, pglob, limitp);

for (i = 0, pl = pm = ptr; pm <= pe; pm++) {
    switch (*pm) {
    case LBRACKET:
        /* Ignore everything between [] */
        for (pl = pm++; *pm != RBRACKET && *pm != EOS; pm++)
            continue;
        if (*pm == EOS) {
            /*
             * We could not find a matching RBRACKET.
             * Ignore and just look for RBRACE
             */
            pm = pl;
        }
    }
}

```

```

}
break;

case LBRACE:
i++;
break;

case RBRACE:
if (i) {
i--;
break;
}
/* FALLTHROUGH */
case COMMA:
if (i && *pm == COMMA)
break;
else {
/* Append the current string */
for (lm = ls; (pl < pm); *lm++ = *pl++)
continue;

/*
* Append the rest of the pattern after the
* closing brace
*/
for (pl = pe + 1; (*lm++ = *pl++) != EOS;)
continue;

/* Expand the current pattern */
#ifdef DEBUG
qprintf("globexp2:", patbuf);
#endif
rv = globexp1(patbuf, pglob, limitp);
if (rv && rv != GLOB_NOMATCH)
return rv;

/* move after the comma, to the next string */
pl = pm + 1;
}
break;

default:
break;
}
}
return 0;
}

```

```

/*
 * expand tilde from the passwd file.
 */
static const Char *
globtilde(const Char *pattern, Char *patbuf, size_t patbuf_len, glob_t *pglob)
{
    struct passwd *pwd;
    char *h;
    const Char *p;
    Char *b, *eb;

    if (*pattern != TILDE || !(pglob->gl_flags & GLOB_TILDE))
        return pattern;

    /* Copy up to the end of the string or / */
    eb = &patbuf[patbuf_len - 1];
    for (p = pattern + 1, h = (char *) patbuf;
         h < (char *)eb && *p && *p != SLASH; *h++ = *p++)
        continue;

    *h = EOS;

    if (((char *) patbuf)[0] == EOS) {
        /*
         * handle a plain ~ or ~/ by expanding $HOME
         * first and then trying the password file
         */
        if ((h = getenv("HOME")) == NULL) {
            if ((pwd = getpwuid(getuid())) == NULL)
                return pattern;
            else
                h = pwd->pw_dir;
        }
    } else {
        /*
         * Expand a ~user
         */
        if ((pwd = getpwnam((char*) patbuf)) == NULL)
            return pattern;
        else
            h = pwd->pw_dir;
    }

    /* Copy the home directory */
    for (b = patbuf; b < eb && *h; *b++ = *h++)
        continue;

```

```

/* Append the rest of the pattern */
while (b < eb && (*b++ = *p++) != EOS)
    continue;
*b = EOS;

return patbuf;
}

static int
g_strncmp(const Char *s1, const char *s2, size_t n)
{
    int rv = 0;

    while (n--) {
        rv = *(Char *)s1 - *(const unsigned char *)s2++;
        if (rv)
            break;
        if (*s1++ == '\0')
            break;
    }
    return rv;
}

static int
g_chareclass(const Char **patternp, Char **bufnextp)
{
    const Char *pattern = *patternp + 1;
    Char *bufnext = *bufnextp;
    const Char *colon;
    struct cclass *cc;
    size_t len;

    if ((colon = g_strchr(pattern, ':')) == NULL || colon[1] != ']')
        return 1; /* not a character class */

    len = (size_t)(colon - pattern);
    for (cc = cclasses; cc->name != NULL; cc++) {
        if (!g_strncmp(pattern, cc->name, len) && cc->name[len] == '\0')
            break;
    }
    if (cc->name == NULL)
        return -1; /* invalid character class */
    *bufnext++ = M_CLASS;
    *bufnext++ = (Char)(cc - &cclasses[0]);
    *bufnextp = bufnext;
    *patternp += len + 3;
}

```

```

return 0;
}

/*
 * The main glob() routine: compiles the pattern (optionally processing
 * quotes), calls glob1() to do the real pattern matching, and finally
 * sorts the list (unless unsorted operation is requested). Returns 0
 * if things went well, nonzero if errors occurred. It is not an error
 * to find no matches.
 */
static int
glob0(const Char *pattern, glob_t *pglob, struct glob_lim *limitp)
{
    const Char *qpatnext;
    int c, err, oldpathc;
    Char *bufnext, patbuf[PATH_MAX];

    qpatnext = globtilde(pattern, patbuf, PATH_MAX, pglob);
    oldpathc = pglob->gl_pathc;
    bufnext = patbuf;

    /* We don't need to check for buffer overflow any more. */
    while ((c = *qpatnext++) != EOS) {
        switch (c) {
        case LBRACKET:
            c = *qpatnext;
            if (c == NOT)
                ++qpatnext;
            if (*qpatnext == EOS ||
                g_strchr(qpatnext+1, RBRACKET) == NULL) {
                *bufnext++ = LBRACKET;
                if (c == NOT)
                    --qpatnext;
                break;
            }
            *bufnext++ = M_SET;
            if (c == NOT)
                *bufnext++ = M_NOT;
            c = *qpatnext++;
            do {
                if (c == LBRACKET && *qpatnext == ':') {
                    do {
                        err = g_charclass(&qpatnext,
                            &bufnext);
                        if (err)
                            break;
                        c = *qpatnext++;
                    } while (c == LBRACKET && *qpatnext == ':');
                }
            }
        }
    }

```



```

if (err == -1 &&
    !(pglob->gl_flags & GLOB_NOCHECK))
    return GLOB_NOMATCH;
if (c == RBRACKET)
    break;
}
*bufnext++ = CHAR(c);
if (*qpatnext == RANGE &&
    (c = qpatnext[1]) != RBRACKET) {
    *bufnext++ = M_RNG;
    *bufnext++ = CHAR(c);
    qpatnext += 2;
}
} while ((c = *qpatnext++) != RBRACKET);
pglob->gl_flags |= GLOB_MAGCHAR;
*bufnext++ = M_END;
break;
case QUESTION:
    pglob->gl_flags |= GLOB_MAGCHAR;
    *bufnext++ = M_ONE;
    break;
case STAR:
    pglob->gl_flags |= GLOB_MAGCHAR;
    /* collapse adjacent stars to one,
     * to avoid exponential behavior
     */
    if (bufnext == patbuf || bufnext[-1] != M_ALL)
        *bufnext++ = M_ALL;
    break;
default:
    *bufnext++ = CHAR(c);
    break;
}
}
*bufnext = EOS;
#ifdef DEBUG
qprintf("glob0:", patbuf);
#endif

if ((err = glob1(patbuf, patbuf + PATH_MAX - 1, pglob, limitp)) != 0)
    return err;

/*
 * If there was no match we are going to append the pattern
 * if GLOB_NOCHECK was specified.
 */
if (pglob->gl_pathc == oldpathc) {
    if ((pglob->gl_flags & GLOB_NOCHECK))

```

```

    return globextend(pattern, pglob, limitp, NULL);
else
    return GLOB_NOMATCH;
}
if (!(pglob->gl_flags & GLOB_NOSORT)) {
    qsort(pglob->gl_pathv + pglob->gl_offs + oldpathc,
        pglob->gl_pathc - oldpathc, sizeof(char *), compare);
}
return 0;
}

static int
compare(const void *p, const void *q)
{
    return strcmp(*(char **)p, *(char **)q);
}

static int
glob1(Char *pattern, Char *pattern_last, glob_t *pglob, struct glob_lim *limitp)
{
    Char pathbuf[PATH_MAX];

    /* A null pathname is invalid -- POSIX 1003.1 sect. 2.4. */
    if (*pattern == EOS)
        return 0;
    return glob2(pathbuf, pathbuf + PATH_MAX - 1,
        pathbuf, pathbuf + PATH_MAX - 1,
        pattern, pattern_last, pglob, limitp);
}

/*
 * The functions glob2 and glob3 are mutually recursive; there is one level
 * of recursion for each segment in the pattern that contains one or more
 * meta characters.
 */
static int
glob2(Char *pathbuf, Char *pathbuf_last, Char *pathend, Char *pathend_last,
    Char *pattern, Char *pattern_last, glob_t *pglob, struct glob_lim *limitp)
{
    struct stat sb;
    Char *p, *q;
    int anymeta;

    /*
     * Loop over pattern segments until end of pattern or until
     * segment with meta character found.
     */
    for (anymeta = 0;;) {

```

```

if (*pattern == EOS) { /* End of pattern? */
    *pathend = EOS;

    if ((pglob->gl_flags & GLOB_LIMIT) &&
        limitp->glim_stat++ >= GLOB_LIMIT_STAT) {
        errno = 0;
        *pathend++ = SEP;
        *pathend = EOS;
        return GLOB_NOSPACE;
    }
    if (g_lstat(pathbuf, &sb, pglob))
        return 0;

    if (((pglob->gl_flags & GLOB_MARK) &&
        pathend[-1] != SEP) && (S_ISDIR(sb.st_mode) ||
        (S_ISLNK(sb.st_mode) &&
        (g_stat(pathbuf, &sb, pglob) == 0) &&
        S_ISDIR(sb.st_mode)))) {
        if (pathend+1 > pathend_last)
            return 1;
        *pathend++ = SEP;
        *pathend = EOS;
    }
    ++pglob->gl_matchc;
    return globextend(pathbuf, pglob, limitp, &sb);
}

/* Find end of next segment, copy tentatively to pathend. */
q = pathend;
p = pattern;
while (*p != EOS && *p != SEP) {
    if (ismeta(*p))
        anymeta = 1;
    if (q+1 > pathend_last)
        return 1;
    *q++ = *p++;
}

if (!anymeta) { /* No expansion, do next segment. */
    pathend = q;
    pattern = p;
    while (*pattern == SEP) {
        if (pathend+1 > pathend_last)
            return 1;
        *pathend++ = *pattern++;
    }
} else
    /* Need expansion, recurse. */

```

```

return glob3(pathbuf, pathbuf_last, pathend,
    pathend_last, pattern, p, pattern_last,
    pglob, limitp);
}
/* NOTREACHED */
}

static int
glob3(Char *pathbuf, Char *pathbuf_last, Char *pathend, Char *pathend_last,
    Char *pattern, Char *restpattern, Char *restpattern_last, glob_t *pglob,
    struct glob_lim *limitp)
{
    struct dirent *dp;
    DIR *dirp;
    int err;
    char buf[PATH_MAX];

    if (pathend > pathend_last)
        return 1;
    *pathend = EOS;
    errno = 0;

    if ((dirp = g_opendir(pathbuf, pglob)) == NULL) {
        /* TODO: don't call for ENOENT or ENOTDIR? */
        if (pglob->gl_errfunc) {
            if (g_Ctoc(pathbuf, buf, sizeof(buf)))
                return GLOB_ABORTED;
            if (pglob->gl_errfunc(buf, errno) ||
                pglob->gl_flags & GLOB_ERR)
                return GLOB_ABORTED;
        }
        return 0;
    }

    err = 0;

    /* Search directory for matching names. */
    while ((dp = readdir(dirp))) {
        unsigned char *sc;
        Char *dc;

        if ((pglob->gl_flags & GLOB_LIMIT) &&
            limitp->glim_readdir++ >= GLOB_LIMIT_READDIR) {
            errno = 0;
            *pathend++ = SEP;
            *pathend = EOS;
            err = GLOB_NOSPACE;
            break;

```

```

}

/* Initial DOT must be matched literally. */
if (dp->d_name[0] == DOT && *pattern != DOT)
    continue;
dc = pathend;
sc = (unsigned char *) dp->d_name;
while (dc < pathend_last && (*dc++ = *sc++) != EOS)
    continue;
if (dc >= pathend_last) {
    *dc = EOS;
    err = 1;
    break;
}

if (!match(pathend, pattern, restpattern, GLOB_LIMIT_RECUR)) {
    *pathend = EOS;
    continue;
}
err = glob2(pathbuf, pathbuf_last, --dc, pathend_last,
    restpattern, restpattern_last, pglob, limitp);
if (err)
    break;
}

closedir(dirp);
return err;
}

/*
 * Extend the gl_pathv member of a glob_t structure to accommodate a new item,
 * add the new item, and update gl_pathc.
 *
 * This assumes the BSD realloc, which only copies the block when its size
 * crosses a power-of-two boundary; for v7 realloc, this would cause quadratic
 * behavior.
 *
 * Return 0 if new item added, error code if memory couldn't be allocated.
 *
 * Invariant of the glob_t structure:
 * Either gl_pathc is zero and gl_pathv is NULL; or gl_pathc > 0 and
 * gl_pathv points to (gl_offs + gl_pathc + 1) items.
 */
static int
globextend(const Char *path, glob_t *pglob, struct glob_lim *limitp,
    struct stat *sb)
{
    char **pathv;

```

```

ssize_t i;
size_t newn, len;
char *copy = NULL;
const Char *p;

newn = 2 + pglob->gl_pathc + pglob->gl_offs;
if (pglob->gl_offs >= INT_MAX ||
    pglob->gl_pathc >= INT_MAX ||
    newn >= INT_MAX ||
    SIZE_MAX / sizeof(*pathv) <= newn) {
nospace:
for (i = pglob->gl_offs; i < (ssize_t)(newn - 2); i++) {
if (pglob->gl_pathv && pglob->gl_pathv[i])
free(pglob->gl_pathv[i]);
}
if (pglob->gl_pathv) {
free(pglob->gl_pathv);
pglob->gl_pathv = NULL;
}
return GLOB_NOSPACE;
}

pathv = reallocarray(pglob->gl_pathv, newn, sizeof(*pathv));
if (pathv == NULL)
goto nospace;
if (pglob->gl_pathv == NULL && pglob->gl_offs > 0) {
/* first time around -- clear initial gl_offs items */
pathv += pglob->gl_offs;
for (i = pglob->gl_offs; --i >= 0; )
*--pathv = NULL;
}
pglob->gl_pathv = pathv;

for (p = path; *p++;)
continue;
len = (size_t)(p - path);
limitp->glim_malloc += len;
if ((copy = malloc(len)) != NULL) {
if (g_Ctoc(path, copy, len) {
free(copy);
return GLOB_NOSPACE;
}
pathv[pglob->gl_offs + pglob->gl_pathc++] = copy;
}
pathv[pglob->gl_offs + pglob->gl_pathc] = NULL;

if ((pglob->gl_flags & GLOB_LIMIT) &&
    (newn * sizeof(*pathv)) + limitp->glim_malloc >

```

```

    GLOB_LIMIT_MALLOC) {
    errno = 0;
    return GLOB_NOSPACE;
    }
return copy == NULL ? GLOB_NOSPACE : 0;
}

/*
 * pattern matching function for filenames. Each occurrence of the *
 * pattern causes a recursion level.
 */
static int
match(Char *name, Char *pat, Char *patend, int recur)
{
    int ok, negate_range;
    Char c, k;

    if (recur-- == 0)
        return GLOB_NOSPACE;

    while (pat < patend) {
        c = *pat++;
        switch (c & M_MASK) {
        case M_ALL:
            while (pat < patend && (*pat & M_MASK) == M_ALL)
                pat++; /* eat consecutive '*' */
            if (pat == patend)
                return 1;
            do {
                if (match(name, pat, patend, recur))
                    return 1;
            } while (*name++ != EOS);
            return 0;
        case M_ONE:
            if (*name++ == EOS)
                return 0;
            break;
        case M_SET:
            ok = 0;
            if ((k = *name++) == EOS)
                return 0;
            if ((negate_range = ((*pat & M_MASK) == M_NOT)) != EOS)
                ++pat;
            while (((c = *pat++) & M_MASK) != M_END) {
                if ((c & M_MASK) == M_CLASS) {
                    Char idx = *pat & M_MASK;
                    if (idx < NCCLASSES &&

```

```

    cclasses[idx].isctype(k)
    ok = 1;
    ++pat;
}
if ((*pat & M_MASK) == M_RNG) {
    if (c <= k && k <= pat[1])
        ok = 1;
    pat += 2;
} else if (c == k)
    ok = 1;
}
if (ok == negate_range)
    return 0;
break;
default:
if (*name++ != c)
    return 0;
break;
}
}
return *name == EOS;
}

/* Free allocated data belonging to a glob_t structure. */
void
sudo_globfree(glob_t *pglob)
{
    int i;
    char **pp;

    if (pglob->gl_pathv != NULL) {
        pp = pglob->gl_pathv + pglob->gl_offs;
        for (i = pglob->gl_pathc; i--; ++pp)
            if (*pp)
                free(*pp);
        free(pglob->gl_pathv);
        pglob->gl_pathv = NULL;
    }
}

static DIR *
g_opendir(Char *str, glob_t *pglob)
{
    char buf[PATH_MAX];

    if (!*str) {
        buf[0] = '.';
        buf[1] = '\0';
    }
}

```



```

} else {
if (g_Ctoc(str, buf, sizeof(buf)))
return NULL;
}

return opendir(buf);
}

static int
g_lstat(Char *fn, struct stat *sb, glob_t *pglob)
{
char buf[PATH_MAX];

if (g_Ctoc(fn, buf, sizeof(buf)))
return -1;
return lstat(buf, sb);
}

static int
g_stat(Char *fn, struct stat *sb, glob_t *pglob)
{
char buf[PATH_MAX];

if (g_Ctoc(fn, buf, sizeof(buf)))
return -1;
return stat(buf, sb);
}

static Char *
g_strchr(const Char *str, int ch)
{
do {
if (*str == ch)
return (Char *)str;
} while (*str++);
return NULL;
}

static int
g_Ctoc(const Char *str, char *buf, unsigned int len)
{
while (len--) {
if ((*buf++ = *str++) == EOS)
return 0;
}
return 1;
}

```

```

#ifdef DEBUG
static void
qprintf(const char *str, Char *s)
{
    Char *p;

    (void)printf("%s:\n", str);
    for (p = s; *p; p++)
        (void)printf("%c", CHAR(*p));
    (void)printf("\n");
    for (p = s; *p; p++)
        (void)printf("%c", *p & M_PROTECT ? "" : ' ');
    (void)printf("\n");
    for (p = s; *p; p++)
        (void)printf("%c", ismeta(*p) ? '_' : ' ');
    (void)printf("\n");
}
#endif /* DEBUG */
#endif /* HAVE_GLOB */
/* $OpenBSD: inet_pton.c,v 1.8 2010/05/06 15:47:14 claudio Exp $ */

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 * SOFTWARE.
 */

#include <config.h>

#if !defined(HAVE_INET_PTON)

#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <arpa/nameser.h>
#ifdef HAVE_STRING_H

```

```

#include <string.h>
#endif /* HAVE_STRING_H */
#ifdef HAVE_STRINGS_H
#include <strings.h>
#endif /* HAVE_STRINGS_H */
#include <errno.h>

#include "sudo_compat.h"

#ifdef EAFNOSUPPORT
#define EAFNOSUPPORT EINVAL
#endif

#ifdef NS_INADDRSZ
#define INADDRSZ
#define NS_INADDRSZ INADDRSZ
#else
#define NS_INADDRSZ 4
#endif
#endif

#ifdef NS_IN6ADDRSZ
#define IN6ADDRSZ
#define NS_IN6ADDRSZ IN6ADDRSZ
#else
#define NS_IN6ADDRSZ 16
#endif
#endif

#ifdef NS_INT16SZ
#define INT16SZ
#define NS_INT16SZ INT16SZ
#else
#define NS_INT16SZ 2
#endif
#endif

/*
 * WARNING: Don't even consider trying to compile this on a system where
 * sizeof(int) < 4. sizeof(int) > 4 is fine; all the world's not a VAX.
 */

/* int
 * inet_pton4(src, dst)
 * like inet_aton() but without all the hexadecimal and shorthand.
 * return:
 * 1 if `src' is a valid dotted quad, else 0.
 * notice:
 * does not touch `dst' unless it's returning 1.
 * author:

```

```

* Paul Vixie, 1996.
*/
static int
inet_pton4(const char *src, u_char *dst)
{
    const char digits[] = "0123456789";
    int saw_digit, octets, ch;
    u_char tmp[NS_INADDRSZ], *tp;

    saw_digit = 0;
    octets = 0;
    /* cppcheck-suppress uninitvar */
    *(tp = tmp) = '\0';
    while ((ch = (unsigned char)*src++) != '\0') {
        const char *pch;

        if ((pch = strchr(digits, ch)) != NULL) {
            u_int new = *tp * 10 + (pch - digits);

            if (new > 255)
                return (0);
            if (!saw_digit) {
                if (++octets > 4)
                    return (0);
                saw_digit = 1;
            }
            *tp = new;
        } else if (ch == '.' && saw_digit) {
            if (octets == 4)
                return (0);
            *++tp = 0;
            saw_digit = 0;
        } else
            return (0);
    }
    if (octets < 4)
        return (0);

    memcpy(dst, tmp, NS_INADDRSZ);
    return (1);
}

#ifdef HAVE_STRUCT_IN6_ADDR
/* int
 * inet_pton6(src, dst)
 * convert presentation level address to network order binary form.
 * return:
 * 1 if `src' is a valid [RFC1884 2.2] address, else 0.

```

```

* notice:
* does not touch `dst' unless it's returning 1.
* credit:
* inspired by Mark Andrews.
* author:
* Paul Vixie, 1996.
*/
static int
inet_pton6(const char *src, u_char *dst)
{
    const char xdigits_l[] = "0123456789abcdef",
              xdigits_u[] = "0123456789ABCDEF";
    u_char tmp[NS_IN6ADDRSZ], *tp, *endp, *colonp;
    const char *xdigits, *curtok;
    int ch, saw_xdigit, count_xdigit;
    u_int val;

    /* cppcheck-suppress uninitvar */
    memset((tp = tmp), 0, NS_IN6ADDRSZ);
    endp = tp + NS_IN6ADDRSZ;
    colonp = NULL;
    /* Leading :: requires some special handling. */
    if (*src == ':')
        if (*++src != ':')
            return (0);
    curtok = src;
    saw_xdigit = count_xdigit = 0;
    val = 0;
    while ((ch = (unsigned char)*src++) != '\0') {
        const char *pch;

        if ((pch = strchr((xdigits = xdigits_l), ch)) == NULL)
            pch = strchr((xdigits = xdigits_u), ch);
        if (pch != NULL) {
            if (count_xdigit >= 4)
                return (0);
            val <<= 4;
            val |= (pch - xdigits);
            if (val > 0xffff)
                return (0);
            saw_xdigit = 1;
            count_xdigit++;
            continue;
        }
        if (ch == ':') {
            curtok = src;
            if (!saw_xdigit) {
                if (colonp)

```

```

    return (0);
    colonp = tp;
    continue;
} else if (*src == '\0') {
    return (0);
}
if (tp + NS_INT16SZ > endp)
    return (0);
*tp++ = (u_char) (val >> 8) & 0xff;
*tp++ = (u_char) val & 0xff;
saw_xdigit = 0;
count_xdigit = 0;
val = 0;
continue;
}
if (ch == '.' && ((tp + NS_INADDRSZ) <= endp) &&
    inet_pton4(curtok, tp) > 0) {
    tp += NS_INADDRSZ;
    saw_xdigit = 0;
    count_xdigit = 0;
    break; /* '\0' was seen by inet_pton4(). */
}
return (0);
}
if (saw_xdigit) {
    if (tp + NS_INT16SZ > endp)
        return (0);
    *tp++ = (u_char) (val >> 8) & 0xff;
    *tp++ = (u_char) val & 0xff;
}
if (colonp != NULL) {
    /*
     * Since some memmove()'s erroneously fail to handle
     * overlapping regions, we'll do the shift by hand.
     */
    const long n = tp - colonp;
    long i;

    if (tp == endp)
        return (0);
    for (i = 1; i <= n; i++) {
        endp[-i] = colonp[n - i];
        colonp[n - i] = 0;
    }
    tp = endp;
}
if (tp != endp)
    return (0);

```

```

memcpy(dst, tmp, NS_IN6ADDRSZ);
return (1);
}
#endif /* HAVE_STRUCT_IN6_ADDR */

/* int
 * inet_pton(af, src, dst)
 * convert from presentation format (which usually means ASCII printable)
 * to network format (which is usually some kind of binary format).
 * return:
 * 1 if the address was valid for the specified address family
 * 0 if the address wasn't valid (`dst' is untouched in this case)
 * -1 if some other error occurred (`dst' is untouched in this case, too)
 * author:
 * Paul Vixie, 1996.
 */
int
sudo_inet_pton(int af, const char *src, void *dst)
{
    switch (af) {
    case AF_INET:
        return (inet_pton4(src, dst));
#ifdef HAVE_STRUCT_IN6_ADDR
    case AF_INET6:
        return (inet_pton6(src, dst));
#endif /* HAVE_STRUCT_IN6_ADDR */
    default:
        errno = EAFNOSUPPORT;
        return (-1);
    }
    /* NOTREACHED */
}

#endif /* HAVE_INET_PTON */

```

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Jean-loup Gailly

Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

/\* \$OpenBSD: reallocarray.c,v 1.2 2014/12/08 03:45:00 bcook Exp \$ \*/

/\*

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\*/

#include <config.h>

```

#ifndef HAVE_REALLOCARRAY

#include <sys/types.h>
#include <stdlib.h>
#if defined(HAVE_STDINT_H)
#include <stdint.h>
#elif defined(HAVE_INTTYPES_H)
#include <inttypes.h>
#endif
#include <errno.h>
#include <limits.h>

#include "sudo_compat.h"

/*
 * This is sqrt(SIZE_MAX+1), as s1*s2 <= SIZE_MAX
 * if both s1 < MUL_NO_OVERFLOW and s2 < MUL_NO_OVERFLOW
 */
#define MUL_NO_OVERFLOW ((size_t)1 << (sizeof(size_t) * 4))

void *
sudo_reallocarray(void *optr, size_t nmemb, size_t size)
{
    if ((nmemb >= MUL_NO_OVERFLOW || size >= MUL_NO_OVERFLOW) &&
        nmemb > 0 && SIZE_MAX / nmemb < size) {
        errno = ENOMEM;
        return NULL;
    }
    return realloc(optr, size * nmemb);
}

#endif /* HAVE_REALLOCARRAY */

/*
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 */

```

```
/*
 * Adapted from the following code written by Emin Martinian:
 * http://web.mit.edu/~emin/www/source_code/red_black_tree/index.html
 *
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 */
```

```
#include <config.h>
```

```
#include <sys/types.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include "sudoers.h"
```

```
#include "redblack.h"
```

```
static void rbrepair(struct rbtree *, struct rbnode *);
static void rotate_left(struct rbtree *, struct rbnode *);
static void rotate_right(struct rbtree *, struct rbnode *);
static void rbdestroy_int(struct rbtree *, struct rbnode *, void (*)(void *));
```

```
/*
 * Red-Black tree, see http://en.wikipedia.org/wiki/Red-black\_tree
 *
 * A red-black tree is a binary search tree where each node has a color
 * attribute, the value of which is either red or black. Essentially, it
 * is just a convenient way to express a 2-3-4 binary search tree where
 * the color indicates whether the node is part of a 3-node or a 4-node.
```

```

* In addition to the ordinary requirements imposed on binary search
* trees, we make the following additional requirements of any valid
* red-black tree:
* 1) Every node is either red or black.
* 2) The root is black.
* 3) All leaves are black.
* 4) Both children of each red node are black.
* 5) The paths from each leaf up to the root each contain the same
*    number of black nodes.
*/

```

```

/*
* Create a red black tree struct using the specified compare routine.
* Allocates and returns the initialized (empty) tree or NULL if
* memory cannot be allocated.
*/
struct rbtree *
rbcreate(int (*compar)(const void *, const void*))
{
    struct rbtree *tree;
    debug_decl(rbcreate, SUDOERS_DEBUG_RBTREE)

    if ((tree = malloc(sizeof(*tree))) == NULL) {
        sudo_debug_printf(SUDO_DEBUG_ERROR|SUDO_DEBUG_LINENO,
            "unable to allocate memory");
        debug_return_ptr(NULL);
    }

    tree->compar = compar;

    /*
    * We use a self-referencing sentinel node called nil to simplify the
    * code by avoiding the need to check for NULL pointers.
    */
    tree->nil.left = tree->nil.right = tree->nil.parent = &tree->nil;
    tree->nil.color = black;
    tree->nil.data = NULL;

    /*
    * Similarly, the fake root node keeps us from having to worry
    * about splitting the root.
    */
    tree->root.left = tree->root.right = tree->root.parent = &tree->nil;
    tree->root.color = black;
    tree->root.data = NULL;

    debug_return_ptr(tree);
}

```

```

/*
 * Perform a left rotation starting at node.
 */
static void
rotate_left(struct rbtree *tree, struct rbnode *node)
{
    struct rbnode *child;
    debug_decl(rotate_left, SUDOERS_DEBUG_RBTREE)

    child = node->right;
    node->right = child->left;

    if (child->left != rbnil(tree))
        child->left->parent = node;
    child->parent = node->parent;

    if (node == node->parent->left)
node->parent->left = child;
    else
node->parent->right = child;
    child->left = node;
    node->parent = child;

    debug_return;
}

```

```

/*
 * Perform a right rotation starting at node.
 */
static void
rotate_right(struct rbtree *tree, struct rbnode *node)
{
    struct rbnode *child;
    debug_decl(rotate_right, SUDOERS_DEBUG_RBTREE)

    child = node->left;
    node->left = child->right;

    if (child->right != rbnil(tree))
        child->right->parent = node;
    child->parent = node->parent;

    if (node == node->parent->left)
node->parent->left = child;
    else
node->parent->right = child;
    child->right = node;
}

```

```

node->parent = child;

debug_return;
}

/*
 * Insert data pointer into a redblack tree.
 * Returns a 0 on success, 1 if a node matching "data" already exists
 * (filling in "existing" if not NULL), or -1 on malloc() failure.
 */
int
rbinsert(struct rbtree *tree, void *data, struct rbnode **existing)
{
    struct rbnode *node = rbfirst(tree);
    struct rbnode *parent = rroot(tree);
    int res;
    debug_decl(rbinsert, SUDOERS_DEBUG_RBTREE)

    /* Find correct insertion point. */
    while (node != rbnil(tree)) {
parent = node;
if ((res = tree->compar(data, node->data)) == 0) {
    if (existing != NULL)
        *existing = node;
    debug_return_int(1);
}
node = res < 0 ? node->left : node->right;
}

    node = malloc(sizeof(*node));
    if (node == NULL) {
sudo_debug_printf(SUDO_DEBUG_ERROR|SUDO_DEBUG_LINENO,
    "unable to allocate memory");
debug_return_int(-1);
}
    node->data = data;
    node->left = node->right = rbnil(tree);
    node->parent = parent;
    if (parent == rroot(tree) || tree->compar(data, parent->data) < 0)
parent->left = node;
    else
parent->right = node;
    node->color = red;

    /*
     * If the parent node is black we are all set, if it is red we have
     * the following possible cases to deal with. We iterate through
     * the rest of the tree to make sure none of the required properties

```



```

* is violated.
*
* 1) The uncle is red. We repaint both the parent and uncle black
*    and repaint the grandparent node red.
*
* 2) The uncle is black and the new node is the right child of its
*    parent, and the parent in turn is the left child of its parent.
*    We do a left rotation to switch the roles of the parent and
*    child, relying on further iterations to fixup the old parent.
*
* 3) The uncle is black and the new node is the left child of its
*    parent, and the parent in turn is the left child of its parent.
*    We switch the colors of the parent and grandparent and perform
*    a right rotation around the grandparent. This makes the former
*    parent the parent of the new node and the former grandparent.
*
* Note that because we use a sentinel for the root node we never
* need to worry about replacing the root.
*/
while (node->parent->color == red) {
struct rbnode *uncle;
if (node->parent == node->parent->parent->left) {
    uncle = node->parent->parent->right;
    if (uncle->color == red) {
node->parent->color = black;
uncle->color = black;
node->parent->parent->color = red;
node = node->parent->parent;
    } else /* if (uncle->color == black) */ {
if (node == node->parent->right) {
    node = node->parent;
    rotate_left(tree, node);
}
node->parent->color = black;
node->parent->parent->color = red;
rotate_right(tree, node->parent->parent);
    }
} else /* if (node->parent == node->parent->parent->right) */
    uncle = node->parent->parent->left;
    if (uncle->color == red) {
node->parent->color = black;
uncle->color = black;
node->parent->parent->color = red;
node = node->parent->parent;
    } else /* if (uncle->color == black) */ {
if (node == node->parent->left) {
    node = node->parent;
    rotate_right(tree, node);
}
}
}
}

```

```

    }
    node->parent->color = black;
    node->parent->parent->color = red;
    rotate_left(tree, node->parent->parent);
    }
}
}
rbfirst(tree)->color = black; /* first node is always black */
debug_return_int(0);
}

/*
 * Look for a node matching key in tree.
 * Returns a pointer to the node if found, else NULL.
 */
struct rbnode *
rbfind(struct rbtree *tree, void *key)
{
    struct rbnode *node = rbfirst(tree);
    int res;
    debug_decl(rbfind, SUDOERS_DEBUG_RBTREE)

    while (node != rbnil(tree)) {
        if ((res = tree->compar(key, node->data)) == 0)
            debug_return_ptr(node);
        node = res < 0 ? node->left : node->right;
    }
    debug_return_ptr(NULL);
}

/*
 * Call func() for each node, passing it the node data and a cookie;
 * If func() returns non-zero for a node, the traversal stops and the
 * error value is returned. Returns 0 on successful traversal.
 */
int
rbapply_node(struct rbtree *tree, struct rbnode *node,
             int (*func)(void *, void *), void *cookie, enum rbtraversal order)
{
    int error;
    debug_decl(rbapply_node, SUDOERS_DEBUG_RBTREE)

    if (node != rbnil(tree)) {
        if (order == preorder)
            if ((error = func(node->data, cookie)) != 0)
                debug_return_int(error);
        if ((error = rbapply_node(tree, node->left, func, cookie, order)) != 0)
            debug_return_int(error);
    }
}

```

```

if (order == inorder)
    if ((error = func(node->data, cookie)) != 0)
        debug_return_int(error);
if ((error = rbapply_node(tree, node->right, func, cookie, order)) != 0)
    debug_return_int(error);
if (order == postorder)
    if ((error = func(node->data, cookie)) != 0)
        debug_return_int(error);
    }
    debug_return_int(0);
}

/*
 * Returns the successor of node, or nil if there is none.
 */
static struct rbnode *
rbsuccessor(struct rbtree *tree, struct rbnode *node)
{
    struct rbnode *succ;
    debug_decl(rbsuccessor, SUDOERS_DEBUG_RBTREE)

    if ((succ = node->right) != rbnil(tree)) {
        while (succ->left != rbnil(tree))
            succ = succ->left;
    } else {
        /* No right child, move up until we find it or hit the root */
        for (succ = node->parent; node == succ->right; succ = succ->parent)
            node = succ;
        if (succ == rbroot(tree))
            succ = rbnil(tree);
    }
    debug_return_ptr(succ);
}

/*
 * Recursive portion of rbdestroy().
 */
static void
rbdestroy_int(struct rbtree *tree, struct rbnode *node, void (*destroy)(void *))
{
    debug_decl(rbdestroy_int, SUDOERS_DEBUG_RBTREE)
    if (node != rbnil(tree)) {
        rbdestroy_int(tree, node->left, destroy);
        rbdestroy_int(tree, node->right, destroy);
        if (destroy != NULL)
            destroy(node->data);
        free(node);
    }
}

```

```

    debug_return;
}

/*
 * Destroy the specified tree, calling the destructor "destroy"
 * for each node and then freeing the tree itself.
 */
void
rbdestroy(struct rbtree *tree, void (*destroy)(void *))
{
    debug_decl(rbdestroy, SUDOERS_DEBUG_RBTREE)
    rbdestroy_int(tree, rbfirst(tree), destroy);
    free(tree);
    debug_return;
}

/*
 * Delete node 'z' from the tree and return its data pointer.
 */
void *rbdelete(struct rbtree *tree, struct rbnode *z)
{
    struct rbnode *x, *y;
    void *data = z->data;
    debug_decl(rbdelete, SUDOERS_DEBUG_RBTREE)

    if (z->left == rbnil(tree) || z->right == rbnil(tree))
        y = z;
    else
        y = rbsuccessor(tree, z);
    x = (y->left == rbnil(tree)) ? y->right : y->left;

    if ((x->parent == y->parent) == rroot(tree)) {
        rbfirst(tree) = x;
    } else {
        if (y == y->parent->left)
            y->parent->left = x;
        else
            y->parent->right = x;
    }
    if (y->color == black)
        rbrepair(tree, x);
    if (y != z) {
        y->left = z->left;
        y->right = z->right;
        y->parent = z->parent;
        y->color = z->color;
        z->left->parent = z->right->parent = y;
        if (z == z->parent->left)

```

```

    z->parent->left = y;
else
    z->parent->right = y;
}
free(z);

debug_return_ptr(data);
}

/*
 * Repair the tree after a node has been deleted by rotating and repainting
 * colors to restore the 4 properties inherent in red-black trees.
 */
static void
rbrepair(struct rbtree *tree, struct rbnode *node)
{
    struct rbnode *sibling;
    debug_decl(rbrepair, SUDOERS_DEBUG_RBTREE)

    while (node->color == black && node != rbfirst(tree)) {
if (node == node->parent->left) {
    sibling = node->parent->right;
    if (sibling->color == red) {
sibling->color = black;
node->parent->color = red;
rotate_left(tree, node->parent);
sibling = node->parent->right;
    }
    if (sibling->right->color == black && sibling->left->color == black) {
sibling->color = red;
node = node->parent;
    } else {
if (sibling->right->color == black) {
    sibling->left->color = black;
    sibling->color = red;
    rotate_right(tree, sibling);
    sibling = node->parent->right;
}
sibling->color = node->parent->color;
node->parent->color = black;
sibling->right->color = black;
rotate_left(tree, node->parent);
node = rbfirst(tree); /* exit loop */
    }
} else { /* if (node == node->parent->right) */
    sibling = node->parent->left;
    if (sibling->color == red) {
sibling->color = black;

```

```

node->parent->color = red;
rotate_right(tree, node->parent);
sibling = node->parent->left;
    }
    if (sibling->right->color == black && sibling->left->color == black) {
sibling->color = red;
node = node->parent;
    } else {
if (sibling->left->color == black) {
    sibling->right->color = black;
    sibling->color = red;
    rotate_left(tree, sibling);
    sibling = node->parent->left;
}
sibling->color = node->parent->color;
node->parent->color = black;
sibling->left->color = black;
rotate_right(tree, node->parent);
node = rbfirfirst(tree); /* exit loop */
    }
}
}
node->color = black;

debug_return;
}
/* $OpenBSD: vfprintf.c,v 1.67 2014/12/21 00:23:30 daniel Exp $ */
/*-
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\*

\* From: @(#)vfprintf.c 8.1 (Berkeley) 6/4/93

\*/

/\*

\* v?snprintf/v?asprintf based on OpenBSD vfprintf.c.

\*/

#include <config.h>

#if !defined(HAVE\_VSNPRINTF) || !defined(HAVE\_SNPRINTF) || \  
!defined(HAVE\_VASPRINTF) || !defined(HAVE\_ASPRINTF) || \  
defined(PREFER\_PORTABLE\_SNPRINTF)

#include <sys/types.h>

#include <sys/mman.h>

#include <errno.h>

#ifdef HAVE\_NL\_LANGINFO

# include <langinfo.h>

#endif

#include <limits.h>

#include <stdarg.h>

#include <stdlib.h>

#include <stddef.h>

#if defined(HAVE\_STDINT\_H)

# include <stdint.h>

#elif defined(HAVE\_INTTYPES\_H)

# include <inttypes.h>

#endif

#include <stdio.h>

#ifdef HAVE\_STRING\_H

# include <string.h>

#endif /\* HAVE\_STRING\_H \*/

#ifdef HAVE\_STRINGS\_H

# include <strings.h>

#endif /\* HAVE\_STRINGS\_H \*/

```

#include <unistd.h>
#ifdef PRINTF_WIDE_CHAR
# include <wchar.h>
#endif
#include <fcntl.h>

#include "sudo_compat.h"

/* Avoid printf format attacks by ignoring the %n escape. */
#define NO_PRINTF_PERCENT_N

union arg {
int intarg;
unsigned int uintarg;
long longarg;
unsigned long ulongarg;
long long longlongarg;
unsigned long long ulonglongarg;
ptrdiff_t ptrdiffarg;
size_t sizearg;
ssize_t ssizearg;
intmax_t intmaxarg;
uintmax_t uintmaxarg;
void *pvoidarg;
char *pchararg;
signed char *pschararg;
short *pshortarg;
int *pintarg;
long *plongarg;
long long *plonglongarg;
ptrdiff_t *pptrdiffarg;
ssize_t *pssizearg;
intmax_t *pintmaxarg;
#ifdef FLOATING_POINT
double doublearg;
long double longdoublearg;
#endif
#ifdef PRINTF_WIDE_CHAR
wint_t wintarg;
wchar_t *pwchararg;
#endif
};

static int __find_arguments(const char *fmt0, va_list ap, union arg **argtable,
size_t *argtablesize);
static int __grow_type_table(unsigned char **typetable, int *tablesize);
static int xxxprintf(char **, size_t, int, const char *, va_list);

```



```

#if !defined(MAP_ANON) && defined(MAP_ANONYMOUS)
# define MAP_ANON MAP_ANONYMOUS
#endif

/*
 * Allocate "size" bytes via mmap.
 */
static void *
mmap_alloc(size_t size)
{
    void *p;
#ifdef MAP_ANON
    int fd;

    if ((fd = open("/dev/zero", O_RDWR)) == -1)
        return NULL;
    p = mmap(NULL, size, PROT_READ | PROT_WRITE, MAP_PRIVATE, fd, 0);
    close(fd);
#else
    p = mmap(NULL, size, PROT_READ | PROT_WRITE, MAP_PRIVATE|MAP_ANON, -1, 0);
#endif
    if (p == MAP_FAILED)
        return NULL;
    return p;
}

/*
 * Unmap "size" bytes of the ptr.
 */
static void
mmap_free(void *ptr, size_t size)
{
    if (ptr != NULL)
        munmap(ptr, size);
}

#ifdef PRINTF_WIDE_CHAR
/*
 * Convert a wide character string argument for the %ls format to a multibyte
 * string representation. If not -1, prec specifies the maximum number of
 * bytes to output, and also means that we can't assume that the wide char
 * string is null-terminated.
 */
static char *
__wcsconv(wchar_t *wcsarg, int prec)
{
    mbstate_t mbs;
    char buf[MB_LEN_MAX];

```

```

wchar_t *p;
char *convbuf;
size_t clen, nbytes;

/* Allocate space for the maximum number of bytes we could output. */
if (prec < 0) {
    memset(&mbs, 0, sizeof(mbs));
    p = wcsarg;
    nbytes = wcsrtombs(NULL, (const wchar_t **)&p, 0, &mbs);
    if (nbytes == (size_t)-1) {
        errno = EILSEQ;
        return NULL;
    }
} else {
    /*
     * Optimisation: if the output precision is small enough,
     * just allocate enough memory for the maximum instead of
     * scanning the string.
     */
    if (prec < 128)
        nbytes = prec;
    else {
        nbytes = 0;
        p = wcsarg;
        memset(&mbs, 0, sizeof(mbs));
        for (;;) {
            clen = wcrctomb(buf, *p++, &mbs);
            if (clen == 0 || clen == (size_t)-1 ||
                nbytes + clen > (size_t)prec)
                break;
            nbytes += clen;
        }
        if (clen == (size_t)-1) {
            errno = EILSEQ;
            return NULL;
        }
    }
}
if ((convbuf = malloc(nbytes + 1)) == NULL)
    return NULL;

/* Fill the output buffer. */
p = wcsarg;
memset(&mbs, 0, sizeof(mbs));
if ((nbytes = wcsrtombs(convbuf, (const wchar_t **)&p,
    nbytes, &mbs)) == (size_t)-1) {
    free(convbuf);
    errno = EILSEQ;
}

```

```

    return NULL;
}
convbuf[nbytes] = '\0';
return convbuf;
}
#endif

#ifdef FLOATING_POINT
#include <float.h>
#include <locale.h>
#include <math.h>
#include "floatio.h"
#include "gdtoa.h"

#define DEFPREC 6

static int exponent(char *, int, int);
#endif /* FLOATING_POINT */

/*
 * The size of the buffer we use as scratch space for integer
 * conversions, among other things. Technically, we would need the
 * most space for base 10 conversions with thousands' grouping
 * characters between each pair of digits. 100 bytes is a
 * conservative overestimate even for a 128-bit uintmax_t.
 */
#define BUF 100

#define STATIC_ARG_TBL_SIZE 8 /* Size of static argument table. */

/*
 * Macros for converting digits to letters and vice versa
 */
#define to_digit(c) ((c) - '0')
#define is_digit(c) ((unsigned int)to_digit(c) <= 9)
#define to_char(n) ((n) + '0')

/*
 * Flags used during conversion.
 */
#define ALT 0x0001 /* alternate form */
#define LADJUST 0x0004 /* left adjustment */
#define LONGDBL 0x0008 /* long double */
#define LONGINT 0x0010 /* long integer */
#define LLONGINT 0x0020 /* long long integer */
#define SHORTINT 0x0040 /* short integer */
#define ZEROPAD 0x0080 /* zero (as opposed to blank) pad */

```

```

#define FPT 0x0100 /* Floating point number */
#define PTRINT 0x0200 /* (unsigned) ptrdiff_t */
#define SIZEINT 0x0400 /* (signed) size_t */
#define CHARINT 0x0800 /* 8 bit integer */
#undef MAXINT /* Also defined by HP-UX param.h... */
#define MAXINT 0x1000 /* largest integer size (intmax_t) */

/*
* Actual printf innards.
*/
static int
xxxprintf(char **strp, size_t strsize, int alloc, const char *fmt0, va_list ap)
{
    char *fmt; /* format string */
    int ch; /* character from fmt */
    int n, n2; /* handy integers (short term usage) */
    char *cp; /* handy char pointer (short term usage) */
    int flags; /* flags as above */
    int ret; /* return value accumulator */
    int width; /* width from format (%8d), or 0 */
    int prec; /* precision from format; <0 for N/A */
    char sign; /* sign prefix ('+', '-', or \0) */
#ifdef FLOATING_POINT
    /*
    * We can decompose the printed representation of floating
    * point numbers into several parts, some of which may be empty:
    *
    * [+|-] [0x|0X] MMM . NNN [e|E|p|P] [+|-] ZZ
    *  A   B   ---C---   D   E F
    *
    * A: 'sign' holds this value if present; '\0' otherwise
    * B: ox[1] holds the 'x' or 'X'; '\0' if not hexadecimal
    * C: cp points to the string MMMNNN. Leading and trailing
    * zeros are not in the string and must be added.
    * D: expchar holds this character; '\0' if no exponent, e.g. %f
    * F: at least two digits for decimal, at least one digit for hex
    */
#endif
#ifdef HAVE_NL_LANGINFO
    const char *decimal_point = NULL;
#else
    const char *decimal_point = ".";
#endif
    int signflag; /* true if float is negative */
    union { /* floating point arguments %[aAeEfFgG] */
        double dbl;
        long double ldbl;
    } fparg;
    int expt; /* integer value of exponent */

```



```

if (alloc && str >= estr) { \
    char *t; \
    strsize = (strsize << 1) + 1; \
    if (!(t = realloc(*strp, strsize))) { \
        free(str); \
        *strp = NULL; \
        ret = -1; \
        goto done; \
    } \
    str = t + (str - *strp); \
    estr = t + strsize - 1; \
    *strp = t; \
} \
*str++ = *p++; \
} \
} while (0)

/* BEWARE, PAD uses `n' and PRINTANDPAD uses `n2'. */
#define PAD(plen, pstr) do { \
    if ((n = (plen)) > 0) { \
        while (n > PADSIZ) { \
            PRINT(pstr, PADSIZ); \
            n -= PADSIZ; \
        } \
        PRINT(pstr, n); \
    } \
} while (0)
#define PRINTANDPAD(p, ep, len, with) do { \
    n2 = (ep) - (p); \
    if (n2 > (len)) \
        n2 = (len); \
    if (n2 > 0) \
        PRINT((p), n2); \
    PAD((len) - (n2 > 0 ? n2 : 0), (with)); \
} while(0)

/*
 * To extend shorts properly, we need both signed and unsigned
 * argument extraction methods.
 */
#define SARG() \
((intmax_t)(flags&MAXINT ? GETARG(intmax_t) : \
    flags&LLONGINT ? GETARG(long long) : \
    flags&LONGINT ? GETARG(long) : \
    flags&PTRINT ? GETARG(ptrdiff_t) : \
    flags&SIZEINT ? GETARG(ssize_t) : \
    flags&SHORTINT ? (short)GETARG(int) : \
    flags&CHARINT ? (signed char)GETARG(int) : \

```

```

    GETARG(int))
#define UARG() \
((uintmax_t)(flags&MAXINT ? GETARG(uintmax_t) : \
    flags&LLONGINT ? GETARG(unsigned long long) : \
    flags&LONGINT ? GETARG(unsigned long) : \
    flags&PTRINT ? (uintptr_t)GETARG(ptrdiff_t) : /* XXX */ \
    flags&SIZEINT ? GETARG(size_t) : \
    flags&SHORTINT ? (unsigned short)GETARG(int) : \
    flags&CHARINT ? (unsigned char)GETARG(int) : \
    GETARG(unsigned int)))

/*
 * Append a digit to a value and check for overflow.
 */
#define APPEND_DIGIT(val, dig) do { \
    if ((val) > INT_MAX / 10) \
        goto overflow; \
    (val) *= 10; \
    if ((val) > INT_MAX - to_digit((dig))) \
        goto overflow; \
    (val) += to_digit((dig)); \
} while (0)

/*
 * Get * arguments, including the form *nn$. Preserve the nextarg
 * that the argument can be gotten once the type is determined.
 */
#define GETASTER(val) \
n2 = 0; \
cp = fmt; \
while (is_digit(*cp)) { \
    APPEND_DIGIT(n2, *cp); \
    cp++; \
} \
if (*cp == '$') { \
    int hold = nextarg; \
    if (argtable == NULL) { \
        argtable = statargtable; \
        __find_arguments(fmt0, orgap, &argtable, &argtablesiz); \
    } \
    nextarg = n2; \
    val = GETARG(int); \
    nextarg = hold; \
    fmt = ++cp; \
} else { \
    val = GETARG(int); \
}

```

```

/*
 * Get the argument indexed by nextarg. If the argument table is
 * built, use it to get the argument. If its not, get the next
 * argument (and arguments must be gotten sequentially).
 */
#define GETARG(type) \
((argtable != NULL) ? *((type*)&argtable[nextarg++]) : \
(nextarg++, va_arg(ap, type)))

fmt = (char *)fmt0;
argtable = NULL;
nextarg = 1;
va_copy(orgap, ap);
ret = 0;
#ifdef PRINTF_WIDE_CHAR
convbuf = NULL;
#endif

if (alloc) {
    strsize = 128;
    *strp = str = malloc(strsize);
    if (str == NULL) {
        ret = -1;
        goto done;
    }
    estr = str + 127;
} else {
    str = *strp;
    if (strsize)
        estr = str + strsize - 1;
    else
        estr = NULL;
}

/*
 * Scan the format for conversions (^%' character).
 */
for (;;) {
    for (cp = fmt; (ch = *fmt) != '\0' && ch != '%'; fmt++)
        /* void */;
    if ((n = fmt - cp) != 0) {
        if (n > INT_MAX - ret)
            goto overflow;
        PRINT(cp, n);
        ret += n;
    }
    if (ch == '\0')
        goto done;
}

```



```

fmt++; /* skip over '%' */

flags = 0;
dprec = 0;
width = 0;
prec = -1;
sign = '\0';
ox[1] = '\0';

rflag: ch = *fmt++;
reswitch: switch (ch) {
case ' ':
/*
 * ``If the space and + flags both appear, the space
 * flag will be ignored."
 * -- ANSI X3J11
 */
if (!sign)
    sign = ' ';
goto rflag;
case '#':
    flags |= ALT;
    goto rflag;
case "\\":
/* grouping not implemented */
    goto rflag;
case '*':
/*
 * ``A negative field width argument is taken as a
 * - flag followed by a positive field width."
 * -- ANSI X3J11
 * They don't exclude field widths read from args.
 */
GETASTER(width);
if (width >= 0)
    goto rflag;
if (width == INT_MIN)
    goto overflow;
width = -width;
/* FALLTHROUGH */
case '-':
    flags |= LADJUST;
    goto rflag;
case '+':
    sign = '+';
    goto rflag;
case '!':
    if ((ch = *fmt++) == '*') {

```

```

GETASTER(n);
prec = n < 0 ? -1 : n;
goto rflag;
}
n = 0;
while (is_digit(ch)) {
    APPEND_DIGIT(n, ch);
    ch = *fmt++;
}
if (ch == '$') {
    nextarg = n;
    if (argtable == NULL) {
        argtable = statargtable;
        __find_arguments(fmt0, orgap,
            &argtable, &argtablesiz);
    }
    goto rflag;
}
prec = n;
goto reswitch;
case '0':
    /*
     * ``Note that 0 is taken as a flag, not as the
     * beginning of a field width."
     * -- ANSI X3J11
     */
    flags |= ZEROPAD;
    goto rflag;
case '1': case '2': case '3': case '4':
case '5': case '6': case '7': case '8': case '9':
    n = 0;
    do {
        APPEND_DIGIT(n, ch);
        ch = *fmt++;
    } while (is_digit(ch));
    if (ch == '$') {
        nextarg = n;
        if (argtable == NULL) {
            argtable = statargtable;
            __find_arguments(fmt0, orgap,
                &argtable, &argtablesiz);
        }
        goto rflag;
    }
    width = n;
    goto reswitch;
#ifdef FLOATING_POINT
case 'L':

```

```

    flags |= LONGDBL;
    goto rflag;
#endif
case 'h':
    if (*fmt == 'h') {
        fmt++;
        flags |= CHARINT;
    } else {
        flags |= SHORTINT;
    }
    goto rflag;
case 'j':
    flags |= MAXINT;
    goto rflag;
case 'l':
    if (*fmt == 'l') {
        fmt++;
        flags |= LLONGINT;
    } else {
        flags |= LONGINT;
    }
    goto rflag;
case 'q':
    flags |= LLONGINT;
    goto rflag;
case 't':
    flags |= PTRINT;
    goto rflag;
case 'z':
    flags |= SIZEINT;
    goto rflag;
case 'c':
#ifdef PRINTF_WIDE_CHAR
    if (flags & LONGINT) {
        mbstate_t mbs;
        size_t mbseqlen;

        memset(&mbs, 0, sizeof(mbs));
        mbseqlen = wcrctomb(buf,
            (wchar_t)GETARG(wint_t), &mbs);
        if (mbseqlen == (size_t)-1) {
            errno = EILSEQ;
            goto done;
        }
        cp = buf;
        size = (int)mbseqlen;
    } else {
#endif

```

```

    *(cp = buf) = GETARG(int);
    size = 1;
#ifdef PRINTF_WIDE_CHAR
}
#endif
    sign = '\0';
    break;
case 'D':
    flags |= LONGINT;
    /*FALLTHROUGH*/
case 'd':
case 'i':
    _umax = SARG();
    if ((intmax_t)_umax < 0) {
        _umax = -_umax;
        sign = '-';
    }
    base = DEC;
    goto number;
#ifdef FLOATING_POINT
case 'a':
case 'A':
    if (ch == 'a') {
        ox[1] = 'x';
        xdigs = xdigs_lower;
        expchar = 'p';
    } else {
        ox[1] = 'X';
        xdigs = xdigs_upper;
        expchar = 'P';
    }
    if (prec >= 0)
        prec++;
    if (dtoareult)
        __freedtoa(dtoareult);
    if (flags & LONGDBL) {
        fparg.ldbl = GETARG(long double);
        dtoareult = cp =
            __hldtoa(fparg.ldbl, xdigs, prec,
                &expt, &signflag, &dtoaend);
        if (dtoareult == NULL) {
            errno = ENOMEM;
            goto done;
        }
    } else {
        fparg.dbl = GETARG(double);
        dtoareult = cp =
            __hdtoa(fparg.dbl, xdigs, prec,

```

```

    &expt, &signflag, &dtoaend);
if (dtoaresult == NULL) {
    errno = ENOMEM;
    goto done;
}
}
if (prec < 0)
    prec = dtoaend - cp;
if (expt == INT_MAX)
    ox[1] = '\0';
goto fp_common;
case 'e':
case 'E':
    expchar = ch;
if (prec < 0) /* account for digit before dectpt */
    prec = DEFPREC + 1;
else
    prec++;
goto fp_begin;
case 'f':
case 'F':
    expchar = '\0';
goto fp_begin;
case 'g':
case 'G':
    expchar = ch - ('g' - 'e');
if (prec == 0)
    prec = 1;
fp_begin:
if (prec < 0)
    prec = DEFPREC;
if (dtoaresult)
    __freedtoa(dtoaresult);
if (flags & LONGDBL) {
    fparg.ldbl = GETARG(long double);
    dtoaresult = cp =
        __ldtoa(&fparg.ldbl, expchar ? 2 : 3, prec,
            &expt, &signflag, &dtoaend);
if (dtoaresult == NULL) {
    errno = ENOMEM;
    goto done;
}
} else {
    fparg.dbl = GETARG(double);
    dtoaresult = cp =
        __dtoa(fparg.dbl, expchar ? 2 : 3, prec,
            &expt, &signflag, &dtoaend);
if (dtoaresult == NULL) {

```

```

    errno = ENOMEM;
    goto done;
}
if (expt == 9999)
    expt = INT_MAX;
}
fp_common:
if (signflag)
    sign = '-';
if (expt == INT_MAX) { /* inf or nan */
    if (*cp == 'N')
        cp = (ch >= 'a') ? "nan" : "NAN";
    else
        cp = (ch >= 'a') ? "inf" : "INF";
    size = 3;
    flags &= ~ZEROPAD;
    break;
}
flags |= FPT;
ndig = dtoaend - cp;
if (ch == 'g' || ch == 'G') {
    if (expt > -4 && expt <= prec) {
        /* Make %[gG] smell like %[fF] */
        expchar = '\0';
        if (flags & ALT)
            prec -= expt;
        else
            prec = ndig - expt;
        if (prec < 0)
            prec = 0;
    } else {
        /*
         * Make %[gG] smell like %[eE], but
         * trim trailing zeroes if no # flag.
         */
        if (!(flags & ALT))
            prec = ndig;
    }
}
if (expchar) {
    expsize = exponent(expstr, expt - 1, expchar);
    size = expsize + prec;
    if (prec > 1 || flags & ALT)
        ++size;
} else {
    /* space for digits before decimal point */
    if (expt > 0)
        size = expt;
}

```

```

else /* "0" */
    size = 1;
/* space for decimal pt and following digits */
if (prec || flags & ALT)
    size += prec + 1;
lead = expt;
}
break;
#endif /* FLOATING_POINT */
#ifndef NO_PRINTF_PERCENT_N
case 'n':
    if (flags & LONGLONGINT)
        *GETARG(long long *) = ret;
    else if (flags & LONGINT)
        *GETARG(long *) = ret;
    else if (flags & SHORTINT)
        *GETARG(short *) = ret;
    else if (flags & CHARINT)
        *GETARG(signed char *) = ret;
    else if (flags & PTRINT)
        *GETARG(ptrdiff_t *) = ret;
    else if (flags & SIZEINT)
        *GETARG(ssize_t *) = ret;
    else if (flags & MAXINT)
        *GETARG(intmax_t *) = ret;
    else
        *GETARG(int *) = ret;
    continue; /* no output */
#endif /* NO_PRINTF_PERCENT_N */
case 'O':
    flags |= LONGINT;
/*FALLTHROUGH*/
case 'o':
    _umax = UARG();
    base = OCT;
    goto nosign;
case 'p':
/*
 * ``The argument shall be a pointer to void. The
 * value of the pointer is converted to a sequence
 * of printable characters, in an implementation-
 * defined manner.''
 * -- ANSI X3J11
 */
/* NOSTRICT */
    _umax = (u_long)GETARG(void *);
    base = HEX;
    xdigs = xdigs_lower;

```

```

    ox[1] = 'x';
    goto nosign;
case 's':
#ifdef PRINTF_WIDE_CHAR
    if (flags & LONGINT) {
        wchar_t *wcp;

        if (convbuf != NULL) {
            free(convbuf);
            convbuf = NULL;
        }
        if ((wcp = GETARG(wchar_t *)) == NULL) {
            cp = "(null)";
        } else {
            convbuf = __wcsconv(wcp, prec);
            if (convbuf == NULL)
                goto done;
            cp = convbuf;
        }
    } else
#endif /* PRINTF_WIDE_CHAR */
    if ((cp = GETARG(char *)) == NULL)
        cp = "(null)";
    if (prec >= 0) {
        /*
         * can't use strlen; can only look for the
         * NUL in the first `prec' characters, and
         * strlen() will go further.
         */
        char *p = memchr(cp, 0, prec);

        size = p ? (p - cp) : prec;
    } else {
        size_t len;

        if ((len = strlen(cp)) > INT_MAX)
            goto overflow;
        size = (int)len;
    }
    sign = '\0';
    break;
case 'U':
    flags |= LONGINT;
    /*FALLTHROUGH*/
case 'u':
    _umax = UARG();
    base = DEC;
    goto nosign;

```



```

case 'X':
    xdigs = xdigs_upper;
    goto hex;
case 'x':
    xdigs = xdigs_lower;
hex:  _umax = UARG();
    base = HEX;
    /* leading 0x/X only if non-zero */
    if (flags & ALT && _umax != 0)
        ox[1] = ch;

    /* unsigned conversions */
nosign: sign = '\0';
    /*
     * ``... diouXx conversions ... if a precision is
     * specified, the 0 flag will be ignored."
     * -- ANSI X3J11
     */
number: if ((dprec = prec) >= 0)
        flags &= ~ZEROPAD;

    /*
     * ``The result of converting a zero value with an
     * explicit precision of zero is no characters."
     * -- ANSI X3J11
     */
    cp = buf + BUF;
    if (_umax != 0 || prec != 0) {
        /*
         * Unsigned mod is hard, and unsigned mod
         * by a constant is easier than that by
         * a variable; hence this switch.
         */
        switch (base) {
        case OCT:
            do {
                *--cp = to_char(_umax & 7);
                _umax >>= 3;
            } while (_umax);
            /* handle octal leading 0 */
            if (flags & ALT && *cp != '0')
                *--cp = '0';
            break;

        case DEC:
            /* many numbers are 1 digit */
            while (_umax >= 10) {
                *--cp = to_char(_umax % 10);

```

```

    _umax /= 10;
}
*--cp = to_char(_umax);
break;

case HEX:
do {
    *--cp = xdigs[_umax & 15];
    _umax >>= 4;
} while (_umax);
break;

default:
cp = "bug in vfprintf: bad base";
size = strlen(cp);
goto skipsize;
}
}
size = buf + BUF - cp;
if (size > BUF) /* should never happen */
    abort();
skipsize:
break;
default: /* "%?" prints ?, unless ? is NUL */
if (ch == '\0')
    goto done;
/* pretend it was %c with argument ch */
cp = buf;
*cp = ch;
size = 1;
sign = '\0';
break;
}

/*
* All reasonable formats wind up here. At this point, `cp'
* points to a string which (if not flags&LADJUST) should be
* padded out to `width' places. If flags&ZEROPAD, it should
* first be prefixed by any sign or other prefix; otherwise,
* it should be blank padded before the prefix is emitted.
* After any left-hand padding and prefixing, emit zeroes
* required by a decimal %[diouxX] precision, then print the
* string proper, then emit zeroes required by any leftover
* floating precision; finally, if LADJUST, pad with blanks.
*
* Compute actual size, so we know how much to pad.
* size excludes decimal prec; realz includes it.
*/

```

```

realsz = dprec > size ? dprec : size;
if (sign)
    realsz++;
if (ox[1])
    realsz+= 2;

/* right-adjusting blank padding */
if ((flags & (LADJUST|ZEROPAD)) == 0)
    PAD(width - realsz, blanks);

/* prefix */
if (sign)
    PRINT(&sign, 1);
if (ox[1]) { /* ox[1] is either x, X, or \0 */
    ox[0] = '0';
    PRINT(ox, 2);
}

/* right-adjusting zero padding */
if ((flags & (LADJUST|ZEROPAD)) == ZEROPAD)
    PAD(width - realsz, zeroes);

/* leading zeroes from decimal precision */
PAD(dprec - size, zeroes);

/* the string or number proper */
#ifdef FLOATING_POINT
if ((flags & FPT) == 0) {
    PRINT(cp, size);
} else { /* glue together f_p fragments */
#ifdef HAVE_NL_LANGINFO
if (decimal_point == NULL)
    decimal_point = nl_langinfo(RADIXCHAR);
#endif
#endif
if (!expchar) { /* %[fF] or sufficiently short %[gG] */
if (expt <= 0) {
    PRINT(zeroes, 1);
if (prec || flags & ALT)
    PRINT(decimal_point, 1);
PAD(-expt, zeroes);
/* already handled initial 0's */
prec += expt;
} else {
PRINTANDPAD(cp, dtoaend, lead, zeroes);
cp += lead;
if (prec || flags & ALT)
    PRINT(decimal_point, 1);
}
}

```

```

    PRINTANDPAD(cp, dtoaend, prec, zeroes);
} else { /* %[eE] or sufficiently long %[gG] */
    if (prec > 1 || flags & ALT) {
        buf[0] = *cp++;
        buf[1] = *decimal_point;
        PRINT(buf, 2);
        PRINT(cp, ndig-1);
        PAD(prec - ndig, zeroes);
    } else { /* XeYYY */
        PRINT(cp, 1);
    }
    PRINT(expstr, expsize);
}
}
#else
    PRINT(cp, size);
#endif
/* left-adjusting padding (always blank) */
if (flags & LADJUST)
    PAD(width - realsz, blanks);

/* finally, adjust ret */
if (width < realsz)
    width = realsz;
if (width > INT_MAX - ret)
    goto overflow;
ret += width;
}
done:
    va_end(orgap);
    if (strsize)
        *str = '\0';
    goto finish;

overflow:
    errno = ENOMEM;
    ret = -1;

finish:
#ifdef PRINTF_WIDE_CHAR
    if (convbuf)
        free(convbuf);
#endif
#ifdef FLOATING_POINT
    if (dtoaresult)
        __freedtoa(dtoaresult);
#endif
    if (argtable != NULL && argtable != statargtable) {

```

```

mmap_free(argtable, argtablesiz);
argtable = NULL;
}
return ret;
}

/*
 * Type ids for argument type table.
 */
#define T_UNUSED 0
#define T_SHORT 1
#define T_U_SHORT 2
#define TP_SHORT 3
#define T_INT 4
#define T_U_INT 5
#define TP_INT 6
#define T_LONG 7
#define T_U_LONG 8
#define TP_LONG 9
#define T_LLONG 10
#define T_U_LLONG 11
#define TP_LLONG 12
#define T_DOUBLE 13
#define T_LONG_DOUBLE 14
#define TP_CHAR 15
#define TP_VOID 16
#define T_PTRINT 17
#define TP_PTRINT 18
#define T_SIZEINT 19
#define T_SSIZEINT 20
#define TP_SSIZEINT 21
#define T_MAXINT 22
#define T_MAXUINT 23
#define TP_MAXINT 24
#define T_CHAR 25
#define T_U_CHAR 26
#define T_WINT 27
#define TP_WCHAR 28

/*
 * Find all arguments when a positional parameter is encountered. Returns a
 * table, indexed by argument number, of pointers to each arguments. The
 * initial argument table should be an array of STATIC_ARG_TBL_SIZE entries.
 * It will be replaced with a mmap-ed one if it overflows (malloc cannot be
 * used since we are attempting to make snprintf thread safe, and alloca is
 * problematic since we have nested functions..)
 */
static int

```

```

__find_arguments(const char *fmt0, va_list ap, union arg **argtable,
size_t *argtablesiz)
{
char *fmt; /* format string */
int ch; /* character from fmt */
int n, n2; /* handy integer (short term usage) */
char *cp; /* handy char pointer (short term usage) */
int flags; /* flags as above */
unsigned char *typetable; /* table of types */
unsigned char stattypetable[STATIC_ARG_TBL_SIZE];
int tablesiz; /* current size of type table */
int tablemax; /* largest used index in table */
int nextarg; /* 1-based argument index */
int ret = 0; /* return value */

/*
 * Add an argument type to the table, expanding if necessary.
 */
#define ADDTYPE(type) \
((nextarg >= tablesiz) ? \
__grow_type_table(&typetable, &tablesiz) : 0, \
(nextarg > tablemax) ? tablemax = nextarg : 0, \
typetable[nextarg++] = type)

#define ADDSARG() \
((flags&MAXINT) ? ADDTYPE(T_MAXINT) : \
(flags&PTRINT) ? ADDTYPE(T_PTRINT) : \
(flags&SIZEINT) ? ADDTYPE(T_SSIZEINT) : \
(flags&LLONGINT) ? ADDTYPE(T_LLONG) : \
(flags&LONGINT) ? ADDTYPE(T_LONG) : \
(flags&SHORTINT) ? ADDTYPE(T_SHORT) : \
(flags&CHARINT) ? ADDTYPE(T_CHAR) : ADDTYPE(T_INT))))))

#define ADDUARG() \
((flags&MAXINT) ? ADDTYPE(T_MAXUINT) : \
(flags&PTRINT) ? ADDTYPE(T_PTRINT) : \
(flags&SIZEINT) ? ADDTYPE(T_SIZEINT) : \
(flags&LLONGINT) ? ADDTYPE(T_U_LLONG) : \
(flags&LONGINT) ? ADDTYPE(T_U_LONG) : \
(flags&SHORTINT) ? ADDTYPE(T_U_SHORT) : \
(flags&CHARINT) ? ADDTYPE(T_U_CHAR) : ADDTYPE(T_U_INT))))))

/*
 * Add * arguments to the type array.
 */
#define ADDASTER() \
n2 = 0; \
cp = fmt; \

```

```

while (is_digit(*cp)) { \
    APPEND_DIGIT(n2, *cp); \
    cp++; \
} \
if (*cp == '$') { \
    int hold = nextarg; \
    nextarg = n2; \
    ADDTYPE(T_INT); \
    nextarg = hold; \
    fmt = ++cp; \
} else { \
    ADDTYPE(T_INT); \
}
fmt = (char *)fmt0;
typetable = stattypetable;
tablesize = STATIC_ARG_TBL_SIZE;
tablemax = 0;
nextarg = 1;
memset(typetable, T_UNUSED, STATIC_ARG_TBL_SIZE);

/*
 * Scan the format for conversions (^%' character).
 */
for (;;) {
    for (cp = fmt; (ch = *fmt) != '\0' && ch != '%'; fmt++)
        /* void */;
    fmt++; /* skip over '%' */

    flags = 0;

rflag: ch = *fmt++;
reswitch: switch (ch) {
    case ' ':
    case '#':
    case "\\":
        goto rflag;
    case '*':
        ADDASTER();
        goto rflag;
    case '-':
    case '+':
        goto rflag;
    case '.':
        if ((ch = *fmt++) == '*') {
            ADDASTER();
            goto rflag;
        }
        while (is_digit(ch)) {

```

```

    ch = *fmt++;
}
goto reswitch;
case '0':
    goto rflag;
case '1': case '2': case '3': case '4':
case '5': case '6': case '7': case '8': case '9':
    n = 0;
    do {
        APPEND_DIGIT(n ,ch);
        ch = *fmt++;
    } while (is_digit(ch));
    if (ch == '$') {
        nextarg = n;
        goto rflag;
    }
    goto reswitch;
#ifdef FLOATING_POINT
case 'L':
    flags |= LONGDBL;
    goto rflag;
#endif
case 'h':
    if (*fmt == 'h') {
        fmt++;
        flags |= CHARINT;
    } else {
        flags |= SHORTINT;
    }
    goto rflag;
case 'j':
    flags |= MAXINT;
    goto rflag;
case 'l':
    if (*fmt == 'l') {
        fmt++;
        flags |= LLONGINT;
    } else {
        flags |= LONGINT;
    }
    goto rflag;
case 'q':
    flags |= LLONGINT;
    goto rflag;
case 't':
    flags |= PTRINT;
    goto rflag;
case 'z':

```



```

    flags |= SIZEINT;
    goto rflag;
    case 'c':
#ifdef PRINTF_WIDE_CHAR
    if (flags & LONGINT)
        ADDTYPE(T_WINT);
    else
#endif
        ADDTYPE(T_INT);
    break;
    case 'D':
    flags |= LONGINT;
    /*FALLTHROUGH*/
    case 'd':
    case 'i':
        ADDSARG();
    break;
#ifdef FLOATING_POINT
    case 'a':
    case 'A':
    case 'e':
    case 'E':
    case 'f':
    case 'F':
    case 'g':
    case 'G':
        if (flags & LONGDBL)
            ADDTYPE(T_LONG_DOUBLE);
        else
            ADDTYPE(T_DOUBLE);
        break;
#endif /* FLOATING_POINT */
#ifdef NO_PRINTF_PERCENT_N
    case 'n':
        if (flags & LLONGINT)
            ADDTYPE(TP_LLONG);
        else if (flags & LONGINT)
            ADDTYPE(TP_LONG);
        else if (flags & SHORTINT)
            ADDTYPE(TP_SHORT);
        else if (flags & PTRINT)
            ADDTYPE(TP_PTRINT);
        else if (flags & SIZEINT)
            ADDTYPE(TP_SSIZEINT);
        else if (flags & MAXINT)
            ADDTYPE(TP_MAXINT);
        else
            ADDTYPE(TP_INT);

```

```

    continue; /* no output */
#endif /* NO_PRINTF_PERCENT_N */
case 'O':
    flags |= LONGINT;
    /*FALLTHROUGH*/
case 'o':
    ADDUARG();
    break;
case 'p':
    ADDTYPE(TP_VOID);
    break;
case 's':
#ifdef PRINTF_WIDE_CHAR
    if (flags & LONGINT)
        ADDTYPE(TP_WCHAR);
    else
#endif
        ADDTYPE(TP_CHAR);
    break;
case 'U':
    flags |= LONGINT;
    /*FALLTHROUGH*/
case 'u':
case 'X':
case 'x':
    ADDUARG();
    break;
default: /* "%?" prints ?, unless ? is NUL */
    if (ch == '\0')
        goto done;
    break;
}
}
done:
/*
 * Build the argument table.
 */
if (tablemax >= STATIC_ARG_TBL_SIZE) {
    *argtablesiz = sizeof(union arg) * (tablemax + 1);
    *argtable = mmap_alloc(*argtablesiz);
    if (*argtable == NULL)
        return -1;
}

for (n = 1; n <= tablemax; n++) {
    switch (typetable[n]) {
    case T_UNUSED:
    case T_CHAR:

```

```

case T_U_CHAR:
case T_SHORT:
case T_U_SHORT:
case T_INT:
    (*argtable)[n].intarg = va_arg(ap, int);
    break;
case TP_SHORT:
    (*argtable)[n].pshortarg = va_arg(ap, short *);
    break;
case T_U_INT:
    (*argtable)[n].uintarg = va_arg(ap, unsigned int);
    break;
case TP_INT:
    (*argtable)[n].pintarg = va_arg(ap, int *);
    break;
case T_LONG:
    (*argtable)[n].longarg = va_arg(ap, long);
    break;
case T_U_LONG:
    (*argtable)[n].ulongarg = va_arg(ap, unsigned long);
    break;
case TP_LONG:
    (*argtable)[n].plongarg = va_arg(ap, long *);
    break;
case T_LLONG:
    (*argtable)[n].longlongarg = va_arg(ap, long long);
    break;
case T_U_LLONG:
    (*argtable)[n].ulonglongarg = va_arg(ap, unsigned long long);
    break;
case TP_LLONG:
    (*argtable)[n].plonglongarg = va_arg(ap, long long *);
    break;
#ifdef FLOATING_POINT
case T_DOUBLE:
    (*argtable)[n].doublearg = va_arg(ap, double);
    break;
case T_LONG_DOUBLE:
    (*argtable)[n].longdoublearg = va_arg(ap, long double);
    break;
#endif
case TP_CHAR:
    (*argtable)[n].pchararg = va_arg(ap, char *);
    break;
case TP_VOID:
    (*argtable)[n].pvoidarg = va_arg(ap, void *);
    break;
case T_PTRINT:

```

```

(*argtable)[n].ptrdiffarg = va_arg(ap, ptrdiff_t);
break;
case TP_PTRINT:
(*argtable)[n].pptrdiffarg = va_arg(ap, ptrdiff_t *);
break;
case T_SIZEINT:
(*argtable)[n].sizearg = va_arg(ap, size_t);
break;
case T_SSIZEINT:
(*argtable)[n].ssizearg = va_arg(ap, ssize_t);
break;
case TP_SSIZEINT:
(*argtable)[n].pssizearg = va_arg(ap, ssize_t *);
break;
case T_MAXINT:
(*argtable)[n].intmaxarg = va_arg(ap, intmax_t);
break;
case T_MAXUINT:
(*argtable)[n].uintmaxarg = va_arg(ap, uintmax_t);
break;
case TP_MAXINT:
(*argtable)[n].pintmaxarg = va_arg(ap, intmax_t *);
break;
#ifdef PRINTF_WIDE_CHAR
case T_WINT:
(*argtable)[n].wintarg = va_arg(ap, wint_t);
break;
case TP_WCHAR:
(*argtable)[n].pwchararg = va_arg(ap, wchar_t *);
break;
#endif
}
}
goto finish;

overflow:
errno = ENOMEM;
ret = -1;

finish:
if (typetable != NULL && typetable != sttypetable) {
mmap_free(typetable, *argtablesiz);
typetable = NULL;
}
return ret;
}

/*

```

```

* Increase the size of the type table.
*/
static int
__grow_type_table(unsigned char **typetable, int *tablesize)
{
    unsigned char *oldtable = *typetable;
    int newsize = *tablesize * 2;

    if (newsize < sysconf(_SC_PAGESIZE))
        newsize = sysconf(_SC_PAGESIZE);

    if (*tablesize == STATIC_ARG_TBL_SIZE) {
        *typetable = mmap_alloc(newsize);
        if (*typetable == NULL)
            return -1;
        memcpy(*typetable, oldtable, *tablesize);
    } else {
        unsigned char *new = mmap_alloc(newsize);
        if (new == NULL)
            return -1;
        memmove(new, *typetable, *tablesize);
        mmap_free(*typetable, *tablesize);
        *typetable = new;
    }
    memset(*typetable + *tablesize, T_UNUSED, (newsize - *tablesize));

    *tablesize = newsize;
    return 0;
}

```

```

#ifdef FLOATING_POINT
static int
exponent(char *p0, int exp, int fmtch)
{
    char *p, *t;
    char expbuf[MAXEXPDIG];

    p = p0;
    *p++ = fmtch;
    if (exp < 0) {
        exp = -exp;
        *p++ = '-';
    } else
        *p++ = '+';
    t = expbuf + MAXEXPDIG;
    if (exp > 9) {
        do {

```

```

    *--t = to_char(exp % 10);
  } while ((exp /= 10) > 9);
  *--t = to_char(exp);
  for (; t < expbuf + MAXEXPDIG; *p++ = *t++)
    /* nothing */;
  } else {
    /*
     * Exponents for decimal floating point conversions
     * (%[eEgG]) must be at least two characters long,
     * whereas exponents for hexadecimal conversions can
     * be only one character long.
     */
    if (fmtch == 'e' || fmtch == 'E')
      *p++ = '0';
    *p++ = to_char(exp);
  }
  return p - p0;
}
#endif /* FLOATING_POINT */

#if !defined(HAVE_VSNPRINTF) || defined(PREFER_PORTABLE_SNPRINTF)
int
sudo_vsnprintf(char *str, size_t n, const char *fmt, va_list ap)
{

  return xxxprintf(&str, n, 0, fmt, ap);
}
#endif /* !HAVE_VSNPRINTF || PREFER_PORTABLE_SNPRINTF */

#if !defined(HAVE_SNPRINTF) || defined(PREFER_PORTABLE_SNPRINTF)
int
sudo_snprintf(char *str, size_t n, char const *fmt, ...)
{
  int ret;
  va_list ap;

  va_start(ap, fmt);
  ret = xxxprintf(&str, n, 0, fmt, ap);
  va_end(ap);
  return ret;
}
#endif /* !HAVE_SNPRINTF || PREFER_PORTABLE_SNPRINTF */

#if !defined(HAVE_VASPRINTF) || defined(PREFER_PORTABLE_SNPRINTF)
int
sudo_vasprintf(char **str, const char *fmt, va_list ap)
{
  int ret;

```

```

ret = xxxprintf(str, 0, 1, fmt, ap);
if (ret == -1)
    *str = NULL;
return ret;
}
#endif /* !HAVE_VASPRINTF || PREFER_PORTABLE_SNPRINTF */

#if !defined(HAVE_ASPRINTF) || defined(PREFER_PORTABLE_SNPRINTF)
int
sudo_asprintf(char **str, char const *fmt, ...)
{
    int ret;
    va_list ap;

    va_start(ap, fmt);
    ret = xxxprintf(str, 0, 1, fmt, ap);
    va_end(ap);
    if (ret == -1)
        *str = NULL;
    return ret;
}
#endif /* !HAVE_ASPRINTF || PREFER_PORTABLE_SNPRINTF */

#endif /* !HAVE_VSNPRINTF || !HAVE_SNPRINTF || !HAVE_VASPRINTF || !HAVE_ASPRINTF ||
PREFER_PORTABLE_SNPRINTF */
/*
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```

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\*

\* @(#)queue.h 8.5 (Berkeley) 8/20/94

\* \$FreeBSD: head/sys/sys/queue.h 251887 2013-06-18 02:57:56Z lstewart \$

\*/

```
#ifndef SUDO_QUEUE_H
```

```
#define SUDO_QUEUE_H
```

```
/*
```

```
* This file defines four types of data structures: singly-linked lists,
```

```
* singly-linked tail queues, lists and tail queues.
```

```
*
```

```
* A singly-linked list is headed by a single forward pointer. The elements  
* are singly linked for minimum space and pointer manipulation overhead at  
* the expense of O(n) removal for arbitrary elements. New elements can be  
* added to the list after an existing element or at the head of the list.
```

```
* Elements being removed from the head of the list should use the explicit  
* macro for this purpose for optimum efficiency. A singly-linked list may  
* only be traversed in the forward direction. Singly-linked lists are ideal  
* for applications with large datasets and few or no removals or for  
* implementing a LIFO queue.
```

```
*
```

```
* A singly-linked tail queue is headed by a pair of pointers, one to the  
* head of the list and the other to the tail of the list. The elements are  
* singly linked for minimum space and pointer manipulation overhead at the  
* expense of O(n) removal for arbitrary elements. New elements can be added  
* to the list after an existing element, at the head of the list, or at the  
* end of the list. Elements being removed from the head of the tail queue  
* should use the explicit macro for this purpose for optimum efficiency.
```

```
* A singly-linked tail queue may only be traversed in the forward direction.  
* Singly-linked tail queues are ideal for applications with large datasets  
* and few or no removals or for implementing a FIFO queue.
```

```
*
```

```
* A list is headed by a single forward pointer (or an array of forward  
* pointers for a hash table header). The elements are doubly linked  
* so that an arbitrary element can be removed without a need to  
* traverse the list. New elements can be added to the list before  
* or after an existing element or at the head of the list. A list  
* may be traversed in either direction.
```

```
*
```

```
* A tail queue is headed by a pair of pointers, one to the head of the  
* list and the other to the tail of the list. The elements are doubly  
* linked so that an arbitrary element can be removed without a need to
```



- \* traverse the list. New elements can be added to the list before or
- \* after an existing element, at the head of the list, or at the end of
- \* the list. A tail queue may be traversed in either direction.
- \*
- \* A headless tail queue lacks a head structure, The first element acts
- \* as a de facto list head. It uses the same entry struct as a regular
- \* tail queue for easy conversion from headless to headful.
- \* It is capable of concatenating queues as well as individual elements.
- \* Traversing in reverse is more expensive due to lack of a list head.
- \* Note: elements must be initialized before use.
- \*
- \* For details on the use of these macros, see the queue(3) manual page.
- \*

\* SLIST LIST STAILQ TAILQ

\* \_HEAD + + + +

\* \_HEAD\_INITIALIZER + + + +

\* \_ENTRY + + + +

\* \_INIT + + + +

\* \_EMPTY + + + +

\* \_FIRST + + + +

\* \_NEXT + + + +

\* \_PREV - - - +

\* \_LAST - - - +

\* \_FOREACH + + + +

\* \_FOREACH\_FROM + + + +

\* \_FOREACH\_SAFE + + + +

\* \_FOREACH\_FROM\_SAFE + + + +

\* \_FOREACH\_REVERSE - - - +

\* \_FOREACH\_REVERSE\_FROM - - - +

\* \_FOREACH\_REVERSE\_SAFE - - - +

\* \_FOREACH\_REVERSE\_FROM\_SAFE - - - +

\* \_INSERT\_HEAD + + + +

\* \_INSERT\_BEFORE - - - +

\* \_INSERT\_AFTER + + + +

\* \_INSERT\_TAIL - - - +

\* \_CONCAT - - - +

\* \_REMOVE\_AFTER + - - -

\* \_REMOVE\_HEAD + - - -

\* \_REMOVE + + + +

\* \_SWAP + + + +

\*

\*/

#ifdef QUEUE\_MACRO\_DEBUG

/\* Store the last 2 places the queue element or head was altered \*/

struct qm\_trace {

unsigned long lastline;

unsigned long prevline;

```

const char *lastfile;
const char *prevfile;
};

#undef TRACEBUF
#define TRACEBUF struct qm_trace trace;
#undef TRACEBUF_INITIALIZER
#define TRACEBUF_INITIALIZER { __FILE__, __LINE__, NULL, 0 },
#undef TRASHIT
#define TRASHIT(x) do {(x) = (void *)-1;} while (0)
#undef QMD_SAVELINK
#define QMD_SAVELINK(name, link) void **name = (void *)&(link)

#undef QMD_TRACE_HEAD
#define QMD_TRACE_HEAD(head) do { \
(head)->trace.prevline = (head)->trace.lastline; \
(head)->trace.prevfile = (head)->trace.lastfile; \
(head)->trace.lastline = __LINE__; \
(head)->trace.lastfile = __FILE__; \
} while (0)

#undef QMD_TRACE_ELEM
#define QMD_TRACE_ELEM(elem) do { \
(elem)->trace.prevline = (elem)->trace.lastline; \
(elem)->trace.prevfile = (elem)->trace.lastfile; \
(elem)->trace.lastline = __LINE__; \
(elem)->trace.lastfile = __FILE__; \
} while (0)

#else
#undef QMD_TRACE_ELEM
#define QMD_TRACE_ELEM(elem)
#undef QMD_TRACE_HEAD
#define QMD_TRACE_HEAD(head)
#undef QMD_SAVELINK
#define QMD_SAVELINK(name, link)
#undef TRACEBUF
#define TRACEBUF
#undef TRACEBUF_INITIALIZER
#define TRACEBUF_INITIALIZER
#undef TRASHIT
#define TRASHIT(x)
#endif /* QUEUE_MACRO_DEBUG */

/*
 * Singly-linked List declarations.
 */
#undef SLIST_HEAD

```

```

#define SLIST_HEAD(name, type) \
struct name { \
    struct type *slh_first; /* first element */ \
}

#undef SLIST_HEAD_INITIALIZER
#define SLIST_HEAD_INITIALIZER(head) \
{ NULL }

#undef SLIST_ENTRY
#define SLIST_ENTRY(type) \
struct { \
    struct type *sle_next; /* next element */ \
}

/*
 * Singly-linked List functions.
 */
#undef SLIST_EMPTY
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)

#undef SLIST_FIRST
#define SLIST_FIRST(head) ((head)->slh_first)

#undef SLIST_FOREACH
#define SLIST_FOREACH(var, head, field) \
for ((var) = SLIST_FIRST((head)); \
    (var); \
    (var) = SLIST_NEXT((var), field))

#undef SLIST_FOREACH_FROM
#define SLIST_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : SLIST_FIRST((head))); \
    (var); \
    (var) = SLIST_NEXT((var), field))

#undef SLIST_FOREACH_SAFE
#define SLIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = SLIST_FIRST((head)); \
    (var) && ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef SLIST_FOREACH_FROM_SAFE
#define SLIST_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : SLIST_FIRST((head))); \
    (var) && ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

```

```

#undef SLIST_FOREACH_PREVPTR
#define SLIST_FOREACH_PREVPTR(var, varp, head, field) \
for ((varp) = &SLIST_FIRST((head)); \
((var) = *(varp)) != NULL; \
(varp) = &SLIST_NEXT((var), field))

#undef SLIST_INIT
#define SLIST_INIT(head) do { \
SLIST_FIRST((head)) = NULL; \
} while (0)

#undef SLIST_INSERT_AFTER
#define SLIST_INSERT_AFTER(slistelm, elm, field) do { \
SLIST_NEXT((elm), field) = SLIST_NEXT((slistelm), field); \
SLIST_NEXT((slistelm), field) = (elm); \
} while (0)

#undef SLIST_INSERT_HEAD
#define SLIST_INSERT_HEAD(head, elm, field) do { \
SLIST_NEXT((elm), field) = SLIST_FIRST((head)); \
SLIST_FIRST((head)) = (elm); \
} while (0)

#undef SLIST_NEXT
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#undef SLIST_REMOVE
#define SLIST_REMOVE(head, elm, type, field) do { \
QMD_SAVELINK(oldnext, (elm)->field.sle_next); \
if (SLIST_FIRST((head)) == (elm)) { \
SLIST_REMOVE_HEAD((head), field); \
} \
else { \
struct type *curelm = SLIST_FIRST((head)); \
while (SLIST_NEXT(curelm, field) != (elm)) \
curelm = SLIST_NEXT(curelm, field); \
SLIST_REMOVE_AFTER(curelm, field); \
} \
TRASHIT(*oldnext); \
} while (0)

#undef SLIST_REMOVE_AFTER
#define SLIST_REMOVE_AFTER(elm, field) do { \
SLIST_NEXT(elm, field) = \
SLIST_NEXT(SLIST_NEXT(elm, field), field); \
} while (0)

#undef SLIST_REMOVE_HEAD

```

```

#define SLIST_REMOVE_HEAD(head, field) do { \
    SLIST_FIRST((head)) = SLIST_NEXT(SLIST_FIRST((head)), field); \
} while (0)

#undef SLIST_SWAP
#define SLIST_SWAP(head1, head2, type) do { \
    struct type *swap_first = SLIST_FIRST(head1); \
    SLIST_FIRST(head1) = SLIST_FIRST(head2); \
    SLIST_FIRST(head2) = swap_first; \
} while (0)

/*
 * Singly-linked Tail queue declarations.
 */
#undef STAILQ_HEAD
#define STAILQ_HEAD(name, type) \
struct name { \
    struct type *stqh_first; /* first element */ \
    struct type **stqh_last; /* addr of last next element */ \
}

#undef STAILQ_HEAD_INITIALIZER
#define STAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).stqh_first }

#undef STAILQ_ENTRY
#define STAILQ_ENTRY(type) \
struct { \
    struct type *stqe_next; /* next element */ \
}

/*
 * Singly-linked Tail queue functions.
 */
#undef STAILQ_CONCAT
#define STAILQ_CONCAT(head1, head2) do { \
    if (!STAILQ_EMPTY((head2))) { \
        *(head1)->stqh_last = (head2)->stqh_first; \
        (head1)->stqh_last = (head2)->stqh_last; \
        STAILQ_INIT((head2)); \
    } \
} while (0)

#undef STAILQ_EMPTY
#define STAILQ_EMPTY(head) ((head)->stqh_first == NULL)

#undef STAILQ_FIRST
#define STAILQ_FIRST(head) ((head)->stqh_first)

```

```

#undef STAILQ_FOREACH
#define STAILQ_FOREACH(var, head, field) \
for ((var) = STAILQ_FIRST((head)); \
    (var); \
    (var) = STAILQ_NEXT((var), field))

#undef STAILQ_FOREACH_FROM
#define STAILQ_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : STAILQ_FIRST((head))); \
    (var); \
    (var) = STAILQ_NEXT((var), field))

#undef STAILQ_FOREACH_SAFE
#define STAILQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = STAILQ_FIRST((head)); \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
    (var) = (tvar))

#undef STAILQ_FOREACH_FROM_SAFE
#define STAILQ_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : STAILQ_FIRST((head))); \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
    (var) = (tvar))

#undef STAILQ_INIT
#define STAILQ_INIT(head) do { \
    STAILQ_FIRST((head)) = NULL; \
    (head)->stqh_last = &STAILQ_FIRST((head)); \
} while (0)

#undef STAILQ_INSERT_AFTER
#define STAILQ_INSERT_AFTER(head, tqelm, elm, field) do { \
if ((STAILQ_NEXT((elm), field) = STAILQ_NEXT((tqelm), field)) == NULL) \
    (head)->stqh_last = &STAILQ_NEXT((elm), field); \
    STAILQ_NEXT((tqelm), field) = (elm); \
} while (0)

#undef STAILQ_INSERT_HEAD
#define STAILQ_INSERT_HEAD(head, elm, field) do { \
if ((STAILQ_NEXT((elm), field) = STAILQ_FIRST((head))) == NULL) \
    (head)->stqh_last = &STAILQ_NEXT((elm), field); \
    STAILQ_FIRST((head)) = (elm); \
} while (0)

#undef STAILQ_INSERT_TAIL
#define STAILQ_INSERT_TAIL(head, elm, field) do { \
    STAILQ_NEXT((elm), field) = NULL; \

```

```

*(head)->stqh_last = (elm); \
(head)->stqh_last = &STAILQ_NEXT((elm), field); \
} while (0)

#undef STAILQ_LAST
#define STAILQ_LAST(head, type, field) \
(STAILQ_EMPTY((head)) ? NULL : \
    __containerof((head)->stqh_last, struct type, field.stqe_next))

#undef STAILQ_NEXT
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)

#undef STAILQ_REMOVE
#define STAILQ_REMOVE(head, elm, type, field) do { \
    QMD_SAVELINK(oldnext, (elm)->field.stqe_next); \
    if (STAILQ_FIRST((head)) == (elm)) { \
        STAILQ_REMOVE_HEAD((head), field); \
    } \
    else { \
        struct type *curelm = STAILQ_FIRST((head)); \
        while (STAILQ_NEXT(curelm, field) != (elm)) \
            curelm = STAILQ_NEXT(curelm, field); \
        STAILQ_REMOVE_AFTER(head, curelm, field); \
    } \
    TRASHIT(*oldnext); \
} while (0)

#undef STAILQ_REMOVE_AFTER
#define STAILQ_REMOVE_AFTER(head, elm, field) do { \
    if ((STAILQ_NEXT(elm, field) = \
        STAILQ_NEXT(STAILQ_NEXT(elm, field), field)) == NULL) \
        (head)->stqh_last = &STAILQ_NEXT((elm), field); \
} while (0)

#undef STAILQ_REMOVE_HEAD
#define STAILQ_REMOVE_HEAD(head, field) do { \
    if ((STAILQ_FIRST((head)) = \
        STAILQ_NEXT(STAILQ_FIRST((head)), field)) == NULL) \
        (head)->stqh_last = &STAILQ_FIRST((head)); \
} while (0)

#undef STAILQ_SWAP
#define STAILQ_SWAP(head1, head2, type) do { \
    struct type *swap_first = STAILQ_FIRST(head1); \
    struct type **swap_last = (head1)->stqh_last; \
    STAILQ_FIRST(head1) = STAILQ_FIRST(head2); \
    (head1)->stqh_last = (head2)->stqh_last; \
    STAILQ_FIRST(head2) = swap_first; \
} while (0)

```

```

(head2)->stqh_last = swap_last; \
if (STAILQ_EMPTY(head1)) \
    (head1)->stqh_last = &STAILQ_FIRST(head1); \
if (STAILQ_EMPTY(head2)) \
    (head2)->stqh_last = &STAILQ_FIRST(head2); \
} while (0)

/*
 * List declarations.
 */
#undef LIST_HEAD
#define LIST_HEAD(name, type) \
struct name { \
    struct type *lh_first; /* first element */ \
}

#undef LIST_HEAD_INITIALIZER
#define LIST_HEAD_INITIALIZER(head) \
{ NULL }

#undef LIST_ENTRY
#define LIST_ENTRY(type) \
struct { \
    struct type *le_next; /* next element */ \
    struct type **le_prev; /* address of previous next element */ \
}

/*
 * List functions.
 */
#undef LIST_EMPTY
#define LIST_EMPTY(head) ((head)->lh_first == NULL)

#undef LIST_FIRST
#define LIST_FIRST(head) ((head)->lh_first)

#undef LIST_FOREACH
#define LIST_FOREACH(var, head, field) \
for ((var) = LIST_FIRST((head)); \
    (var); \
    (var) = LIST_NEXT((var), field))

#undef LIST_FOREACH_FROM
#define LIST_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : LIST_FIRST((head))); \
    (var); \
    (var) = LIST_NEXT((var), field))

```



```

#undef LIST_FOREACH_SAFE
#define LIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = LIST_FIRST((head)); \
    (var) && ((tvar) = LIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef LIST_FOREACH_FROM_SAFE
#define LIST_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : LIST_FIRST((head))); \
    (var) && ((tvar) = LIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef LIST_INIT
#define LIST_INIT(head) do { \
    LIST_FIRST((head)) = NULL; \
} while (0)

#undef LIST_INSERT_AFTER
#define LIST_INSERT_AFTER(listelm, elm, field) do { \
if ((LIST_NEXT((elm), field) = LIST_NEXT((listelm), field)) != NULL)\
    LIST_NEXT((listelm), field)->field.le_prev = \
        &LIST_NEXT((elm), field); \
LIST_NEXT((listelm), field) = (elm); \
(elm)->field.le_prev = &LIST_NEXT((listelm), field); \
} while (0)

#undef LIST_INSERT_BEFORE
#define LIST_INSERT_BEFORE(listelm, elm, field) do { \
(elm)->field.le_prev = (listelm)->field.le_prev; \
LIST_NEXT((elm), field) = (listelm); \
*(listelm)->field.le_prev = (elm); \
(listelm)->field.le_prev = &LIST_NEXT((elm), field); \
} while (0)

#undef LIST_INSERT_HEAD
#define LIST_INSERT_HEAD(head, elm, field) do { \
if ((LIST_NEXT((elm), field) = LIST_FIRST((head))) != NULL) \
    LIST_FIRST((head)->field.le_prev = &LIST_NEXT((elm), field);\
LIST_FIRST((head)) = (elm); \
(elm)->field.le_prev = &LIST_FIRST((head)); \
} while (0)

#undef LIST_NEXT
#define LIST_NEXT(elm, field) ((elm)->field.le_next)

#undef LIST_PREV
#define LIST_PREV(elm, head, type, field) \

```

```
((elm)->field.le_prev == &LIST_FIRST((head)) ? NULL : \
    __containerof((elm)->field.le_prev, struct type, field.le_next))
```

```
#undef LIST_REMOVE
```

```
#define LIST_REMOVE(elm, field) do { \
    QMD_SAVELINK(oldnext, (elm)->field.le_next); \
    QMD_SAVELINK(oldprev, (elm)->field.le_prev); \
    if (LIST_NEXT((elm), field) != NULL) \
        LIST_NEXT((elm), field)->field.le_prev = \
            (elm)->field.le_prev; \
    *(elm)->field.le_prev = LIST_NEXT((elm), field); \
    TRASHIT(*oldnext); \
    TRASHIT(*oldprev); \
} while (0)
```

```
#undef LIST_SWAP
```

```
#define LIST_SWAP(head1, head2, type, field) do { \
    struct type *swap_tmp = LIST_FIRST((head1)); \
    LIST_FIRST((head1)) = LIST_FIRST((head2)); \
    LIST_FIRST((head2)) = swap_tmp; \
    if ((swap_tmp = LIST_FIRST((head1))) != NULL) \
        swap_tmp->field.le_prev = &LIST_FIRST((head1)); \
    if ((swap_tmp = LIST_FIRST((head2))) != NULL) \
        swap_tmp->field.le_prev = &LIST_FIRST((head2)); \
} while (0)
```

```
/*
```

```
* Tail queue declarations.
```

```
*/
```

```
#undef TAILQ_HEAD
```

```
#define TAILQ_HEAD(name, type) \
struct name { \
    struct type *tqh_first; /* first element */ \
    struct type **tqh_last; /* addr of last next element */ \
    TRACEBUF \
}
```

```
#undef TAILQ_HEAD_INITIALIZER
```

```
#define TAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).tqh_first, TRACEBUF_INITIALIZER }
```

```
#undef TAILQ_ENTRY
```

```
#define TAILQ_ENTRY(type) \
struct { \
    struct type *tqe_next; /* next element */ \
    struct type **tqe_prev; /* address of previous next element */ \
    TRACEBUF \
}
```

```

/*
 * Tail queue functions.
 */
#undef TAILQ_CONCAT
#define TAILQ_CONCAT(head1, head2, field) do { \
    if (!TAILQ_EMPTY(head2)) { \
        *(head1)->tqh_last = (head2)->tqh_first; \
        (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
        (head1)->tqh_last = (head2)->tqh_last; \
        TAILQ_INIT((head2)); \
        QMD_TRACE_HEAD(head1); \
        QMD_TRACE_HEAD(head2); \
    } \
} while (0)

#undef TAILQ_EMPTY
#define TAILQ_EMPTY(head) ((head)->tqh_first == NULL)

#undef TAILQ_FIRST
#define TAILQ_FIRST(head) ((head)->tqh_first)

#undef TAILQ_FOREACH
#define TAILQ_FOREACH(var, head, field) \
    for ((var) = TAILQ_FIRST((head)); \
        (var); \
        (var) = TAILQ_NEXT((var), field))

#undef TAILQ_FOREACH_FROM
#define TAILQ_FOREACH_FROM(var, head, field) \
    for ((var) = ((var) ? (var) : TAILQ_FIRST((head))); \
        (var); \
        (var) = TAILQ_NEXT((var), field))

#undef TAILQ_FOREACH_SAFE
#define TAILQ_FOREACH_SAFE(var, head, field, tvar) \
    for ((var) = TAILQ_FIRST((head)); \
        (var) && ((tvar) = TAILQ_NEXT((var), field), 1); \
        (var) = (tvar))

#undef TAILQ_FOREACH_FROM_SAFE
#define TAILQ_FOREACH_FROM_SAFE(var, head, field, tvar) \
    for ((var) = ((var) ? (var) : TAILQ_FIRST((head))); \
        (var) && ((tvar) = TAILQ_NEXT((var), field), 1); \
        (var) = (tvar))

#undef TAILQ_FOREACH_REVERSE
#define TAILQ_FOREACH_REVERSE(var, head, headname, field) \

```

```

for ((var) = TAILQ_LAST((head), headname); \
    (var); \
    (var) = TAILQ_PREV((var), headname, field))

#undef TAILQ_FOREACH_REVERSE_FROM
#define TAILQ_FOREACH_REVERSE_FROM(var, head, headname, field) \
for ((var) = ((var) ? (var) : TAILQ_LAST((head), headname)); \
    (var); \
    (var) = TAILQ_PREV((var), headname, field))

#undef TAILQ_FOREACH_REVERSE_SAFE
#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, tvar) \
for ((var) = TAILQ_LAST((head), headname); \
    (var) && ((tvar) = TAILQ_PREV((var), headname, field), 1); \
    (var) = (tvar))

#undef TAILQ_FOREACH_REVERSE_FROM_SAFE
#define TAILQ_FOREACH_REVERSE_FROM_SAFE(var, head, headname, field, tvar) \
for ((var) = ((var) ? (var) : TAILQ_LAST((head), headname)); \
    (var) && ((tvar) = TAILQ_PREV((var), headname, field), 1); \
    (var) = (tvar))

#undef TAILQ_INIT
#define TAILQ_INIT(head) do { \
    TAILQ_FIRST((head)) = NULL; \
    (head)->tqh_last = &TAILQ_FIRST((head)); \
    QMD_TRACE_HEAD(head); \
} while (0)

#undef TAILQ_INSERT_AFTER
#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
if ((TAILQ_NEXT((elm), field) = TAILQ_NEXT((listelm), field)) != NULL) \
    TAILQ_NEXT((elm), field)->field.tqe_prev = \
        &TAILQ_NEXT((elm), field); \
else { \
    (head)->tqh_last = &TAILQ_NEXT((elm), field); \
    QMD_TRACE_HEAD(head); \
} \
    TAILQ_NEXT((listelm), field) = (elm); \
    (elm)->field.tqe_prev = &TAILQ_NEXT((listelm), field); \
    QMD_TRACE_ELEM(&(elm)->field); \
    QMD_TRACE_ELEM(&listelm->field); \
} while (0)

#undef TAILQ_INSERT_BEFORE
#define TAILQ_INSERT_BEFORE(listelm, elm, field) do { \
    (elm)->field.tqe_prev = (listelm)->field.tqe_prev; \
    TAILQ_NEXT((elm), field) = (listelm); \
} while (0)

```

```

*(listelm)->field.tqe_prev = (elm); \
(listelm)->field.tqe_prev = &TAILQ_NEXT((elm), field); \
QMD_TRACE_ELEM(&(elm)->field); \
QMD_TRACE_ELEM(&listelm->field); \
} while (0)

#undef TAILQ_INSERT_HEAD
#define TAILQ_INSERT_HEAD(head, elm, field) do { \
if ((TAILQ_NEXT((elm), field) = TAILQ_FIRST((head))) != NULL) \
TAILQ_FIRST((head)->field.tqe_prev = \
&TAILQ_NEXT((elm), field); \
else \
(head)->tqh_last = &TAILQ_NEXT((elm), field); \
TAILQ_FIRST((head)) = (elm); \
(elm)->field.tqe_prev = &TAILQ_FIRST((head)); \
QMD_TRACE_HEAD(head); \
QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

#undef TAILQ_INSERT_TAIL
#define TAILQ_INSERT_TAIL(head, elm, field) do { \
TAILQ_NEXT((elm), field) = NULL; \
(elm)->field.tqe_prev = (head)->tqh_last; \
*(head)->tqh_last = (elm); \
(head)->tqh_last = &TAILQ_NEXT((elm), field); \
QMD_TRACE_HEAD(head); \
QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

#undef TAILQ_LAST
#define TAILQ_LAST(head, headname) \
(*(((struct headname *) (head)->tqh_last)->tqh_last))

#undef TAILQ_NEXT
#define TAILQ_NEXT(elm, field) ((elm)->field.tqe_next)

#undef TAILQ_PREV
#define TAILQ_PREV(elm, headname, field) \
(*(((struct headname *) (elm)->field.tqe_prev)->tqh_last))

#undef TAILQ_REMOVE
#define TAILQ_REMOVE(head, elm, field) do { \
QMD_SAVELINK(oldnext, (elm)->field.tqe_next); \
QMD_SAVELINK(oldprev, (elm)->field.tqe_prev); \
if ((TAILQ_NEXT((elm), field)) != NULL) \
TAILQ_NEXT((elm), field)->field.tqe_prev = \
(elm)->field.tqe_prev; \
else { \

```

```

(head)->tqh_last = (elm)->field.tqe_prev; \
QMD_TRACE_HEAD(head); \
} \
*(elm)->field.tqe_prev = TAILQ_NEXT((elm), field); \
TRASHIT(*oldnext); \
TRASHIT(*oldprev); \
QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

```

```

#undef TAILQ_SWAP
#define TAILQ_SWAP(head1, head2, type, field) do { \
struct type *swap_first = (head1)->tqh_first; \
struct type **swap_last = (head1)->tqh_last; \
(head1)->tqh_first = (head2)->tqh_first; \
(head1)->tqh_last = (head2)->tqh_last; \
(head2)->tqh_first = swap_first; \
(head2)->tqh_last = swap_last; \
if ((swap_first = (head1)->tqh_first) != NULL) \
swap_first->field.tqe_prev = &(head1)->tqh_first; \
else \
(head1)->tqh_last = &(head1)->tqh_first; \
if ((swap_first = (head2)->tqh_first) != NULL) \
swap_first->field.tqe_prev = &(head2)->tqh_first; \
else \
(head2)->tqh_last = &(head2)->tqh_first; \
} while (0)

```

```

/*

```

```

* Headless Tail queue definitions.

```

```

*/

```

```

#undef HLTQ_ENTRY

```

```

#define HLTQ_ENTRY(type) TAILQ_ENTRY(type)

```

```

#undef HLTQ_INIT

```

```

#define HLTQ_INIT(entry, field) do { \
(entry)->field.tqe_next = NULL; \
(entry)->field.tqe_prev = &(entry)->field.tqe_next; \
} while (0)

```

```

#undef HLTQ_INITIALIZER

```

```

#define HLTQ_INITIALIZER(entry, field) \
{ NULL, &(entry)->field.tqe_next }

```

```

#undef HLTQ_FIRST

```

```

#define HLTQ_FIRST(elm) (elm)

```

```

#undef HLTQ_END

```

```

#define HLTQ_END(elm) NULL

```

```

#undef HLTQ_NEXT
#define HLTQ_NEXT(elm, field) ((elm)->field.tqe_next)

#undef HLTQ_LAST
#define HLTQ_LAST(elm, type, field) \
((elm)->field.tqe_next == NULL ? (elm) : \
__containerof((elm)->field.tqe_prev, struct type, field.tqe_next))

#undef HLTQ_PREV
#define HLTQ_PREV(elm, type, field) \
(*(elm)->field.tqe_prev == NULL ? NULL : \
__containerof((elm)->field.tqe_prev, struct type, field.tqe_next))

#undef HLTQ_FOREACH
#define HLTQ_FOREACH(var, head, field) \
for ((var) = HLTQ_FIRST(head); \
(var) != HLTQ_END(head); \
(var) = HLTQ_NEXT(var, field))

#undef HLTQ_FOREACH_SAFE
#define HLTQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = HLTQ_FIRST(head); \
(var) != HLTQ_END(head) && \
((tvar) = HLTQ_NEXT(var, field), 1); \
(var) = (tvar))

#undef HLTQ_FOREACH_REVERSE
#define HLTQ_FOREACH_REVERSE(var, head, headname, field) \
for ((var) = HLTQ_LAST(head, headname); \
(var) != HLTQ_END(head); \
(var) = HLTQ_PREV(var, headname, field))

#undef HLTQ_FOREACH_REVERSE_SAFE
#define HLTQ_FOREACH_REVERSE_SAFE(var, head, headname, field, tvar) \
for ((var) = HLTQ_LAST(head, headname); \
(var) != HLTQ_END(head) && \
((tvar) = HLTQ_PREV(var, headname, field), 1); \
(var) = (tvar))

/* Concatenate queue2 to the end of queue1. */
#undef HLTQ_CONCAT
#define HLTQ_CONCAT(queue1, queue2, field) do { \
(queue2)->field.tqe_prev = (queue1)->field.tqe_prev; \
*(queue1)->field.tqe_prev = (queue2); \
(queue1)->field.tqe_prev = &(queue2)->field.tqe_next; \
} while (0)

```

```

/* Convert a headless tailq to a headful one. */
#define HLTQ_TO_TAILQ(head, hl, field) do { \
    (head)->tqh_first = (hl); \
    (head)->tqh_last = (hl)->field.tqe_prev; \
    (hl)->field.tqe_prev = &(head)->tqh_first; \
} while (0)

/* Concatenate a headless tail queue to the end of a regular tail queue. */
#define TAILQ_CONCAT_HLTQ(head, hl, field) do { \
    void *last = (hl)->field.tqe_prev; \
    (hl)->field.tqe_prev = (head)->tqh_last; \
    *(head)->tqh_last = (hl); \
    (head)->tqh_last = last; \
} while (0)

#endif /* !SUDO_QUEUE_H */

```

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
 Adler, Mark  
 Allbery, Russ  
 Anderson, Jamie  
 Andrew, Nick  
 Andric, Dimitry  
 Barron, Danny  
 Bates, Tom  
 Behan, Zdenk  
 Bellis, Ray  
 Benali, Elias  
 Beverly, Jamie  
 Boardman, Spider  
 Bostley, P.J.  
 Bowes, Keith  
 Boyce, Keith Garry  
 Brantley, Michael  
 Braun, Rob  
 Bezina, Pavel  
 Brooks, Piete  
 Brown, Jerry  
 Burr, Michael E  
 Bussjaeger, Andreas  
 Calvin, Gary  
 Campbell, Aaron  
 Chazelas, Stephane  
 ek, Vtislav



Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
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Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel

Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieuwma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
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Paquet, Eric  
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Percival, Ted  
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Peron, Christian S.J.  
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Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi

Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
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Simon, Thor Lancelot  
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Smith, Andy  
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Thomas, Matthew  
Todd, Giles  
Toft, Martin  
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Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

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Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe

Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
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Psa, Petr  
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Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.258 tar 1.28

## 1.258.1 Available under license :

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Version 3, 29 June 2007

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- web-app\_3\_0.xsd
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For the following XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd



- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd

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# 1.263 tzdata 2015g

## 1.263.1 Available under license :

```
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# 2009-05-17 by Arthur David Olson.

# This file is by no means authoritative; if you think you know better,
# go ahead and edit the file (and please send any changes to
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# the file CONTRIBUTING in the tz distribution.

# From Paul Eggert (2015-08-08):
#
# Unless otherwise specified, the source for data through 1990 is:
# Thomas G. Shanks and Rique Pottenger, The International Atlas (6th edition),
# San Diego: ACS Publications, Inc. (2003).
# Unfortunately this book contains many errors and cites no sources.
#
# Gwillim Law writes that a good source
# for recent time zone data is the International Air Transport
# Association's Standard Schedules Information Manual (IATA SSIM),
# published semiannually. Law sent in several helpful summaries
# of the IATA's data after 1990. Except where otherwise noted,
# IATA SSIM is the source for entries after 1990.
#
# Another source occasionally used is Edward W. Whitman, World Time Differences,
# Whitman Publishing Co, 2 Niagara Av, Ealing, London (undated), which
# I found in the UCLA library.
#
# For data circa 1899, a common source is:
# Milne J. Civil time. Geogr J. 1899 Feb;13(2):173-94.
# http://www.jstor.org/stable/1774359
#
# For Russian data circa 1919, a source is:
# Byalokoz EL. New Counting of Time in Russia since July 1, 1919.
# (See the 'europe' file for a fuller citation.)
#
# A reliable and entertaining source about time zones is
# Derek Howse, Greenwich time and longitude, Philip Wilson Publishers (1997).
#
# I invented the abbreviations marked '*' in the following table;
# the rest are from earlier versions of this file, or from other sources.
# Corrections are welcome!
#   std dst
#   LMT Local Mean Time
# 2:00 EET EEST Eastern European Time
# 2:00 IST IDT Israel
```



```

# 3:00 AST ADT Arabia*
# 3:30 IRST IRDT Iran*
# 4:00 GST Gulf*
# 5:30 IST India
# 7:00 ICT Indochina, most times and locations*
# 7:00 WIB west Indonesia (Waktu Indonesia Barat)
# 8:00 WITA central Indonesia (Waktu Indonesia Tengah)
# 8:00 CST China
# 8:00 IDT Indochina, 1943-45, 1947-55, 1960-75 (some locations)*
# 8:00 JWST Western Standard Time (Japan, 1896/1937)*
# 8:30 KST KDT Korea when at +0830*
# 9:00 JCST Central Standard Time (Japan, 1896/1937)
# 9:00 WIT east Indonesia (Waktu Indonesia Timur)
# 9:00 JST JDT Japan
# 9:00 KST KDT Korea when at +09
# 9:30 ACST Australian Central Standard Time
#
# See the 'europe' file for Russia and Turkey in Asia.

```

```

# From Guy Harris:
# Incorporates data for Singapore from Robert Elz' asia 1.1, as well as
# additional information from Tom Yap, Sun Microsystems Intercontinental
# Technical Support (including a page from the Official Airline Guide -
# Worldwide Edition). The names for time zones are guesses.

```

```
#####
```

```

# These rules are stolen from the 'europe' file.
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule EUAsia 1981 max - Mar lastSun 1:00u 1:00 S
Rule EUAsia 1979 1995 - Sep lastSun 1:00u 0 -
Rule EUAsia 1996 max - Oct lastSun 1:00u 0 -
Rule E-EurAsia 1981 max - Mar lastSun 0:00 1:00 S
Rule E-EurAsia 1979 1995 - Sep lastSun 0:00 0 -
Rule E-EurAsia 1996 max - Oct lastSun 0:00 0 -
Rule RussiaAsia 1981 1984 - Apr 1 0:00 1:00 S
Rule RussiaAsia 1981 1983 - Oct 1 0:00 0 -
Rule RussiaAsia 1984 1991 - Sep lastSun 2:00s 0 -
Rule RussiaAsia 1985 1991 - Mar lastSun 2:00s 1:00 S
Rule RussiaAsia 1992 only - Mar lastSat 23:00 1:00 S
Rule RussiaAsia 1992 only - Sep lastSat 23:00 0 -
Rule RussiaAsia 1993 max - Mar lastSun 2:00s 1:00 S
Rule RussiaAsia 1993 1995 - Sep lastSun 2:00s 0 -
Rule RussiaAsia 1996 max - Oct lastSun 2:00s 0 -

```

```

# Afghanistan
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Kabul 4:36:48 - LMT 1890

```

4:00 - AFT 1945

4:30 - AFT

# Armenia

# From Paul Eggert (2006-03-22):

# Shanks & Pottenger have Yerevan switching to 3:00 (with Russian DST)

# in spring 1991, then to 4:00 with no DST in fall 1995, then

# readopting Russian DST in 1997. Go with Shanks & Pottenger, even

# when they disagree with others. Edgar Der-Danieliantz

# reported (1996-05-04) that Yerevan probably wouldn't use DST

# in 1996, though it did use DST in 1995. IATA SSIM (1991/1998) reports that

# Armenia switched from 3:00 to 4:00 in 1998 and observed DST after 1991,

# but started switching at 3:00s in 1998.

# From Arthur David Olson (2011-06-15):

# While Russia abandoned DST in 2011, Armenia may choose to

# follow Russia's "old" rules.

# From Alexander Krivenyshev (2012-02-10):

# According to News Armenia, on Feb 9, 2012,

# <http://newsarmenia.ru/society/20120209/42609695.html>

#

# The Armenia National Assembly adopted final reading of Amendments to the

# Law "On procedure of calculation time on the territory of the Republic of

# Armenia" according to which Armenia [is] abolishing Daylight Saving Time.

# or

# (brief)

# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_armenia03.html](http://www.worldtimezone.com/dst_news/dst_news_armenia03.html)

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Yerevan 2:58:00 - LMT 1924 May 2

3:00 - YERT 1957 Mar # Yerevan Time

4:00 RussiaAsia YER%sT 1991 Mar 31 2:00s

3:00 1:00 YERST 1991 Sep 23 # independence

3:00 RussiaAsia AM%sT 1995 Sep 24 2:00s

4:00 - AMT 1997

4:00 RussiaAsia AM%sT 2012 Mar 25 2:00s

4:00 - AMT

# Azerbaijan

# From Rustam Aliyev of the Azerbaijan Internet Forum (2005-10-23):

# According to the resolution of Cabinet of Ministers, 1997

# From Paul Eggert (2015-09-17): It was Resolution No. 21 (1997-03-17).

# [http://code.az/files/daylight\\_res.pdf](http://code.az/files/daylight_res.pdf)

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Azer 1997 max - Mar lastSun 4:00 1:00 S

Rule Azer 1997 max - Oct lastSun 5:00 0 -

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Baku 3:19:24 - LMT 1924 May 2

3:00 - BAKT 1957 Mar # Baku Time  
4:00 RussiaAsia BAK%ST 1991 Mar 31 2:00s  
3:00 1:00 BAKST 1991 Aug 30 # independence  
3:00 RussiaAsia AZ%ST 1992 Sep lastSat 23:00  
4:00 - AZT 1996 # Azerbaijan Time  
4:00 EUAsia AZ%ST 1997  
4:00 Azer AZ%ST

# Bahrain  
# See Asia/Qatar.

# Bangladesh

# From Alexander Krivenyshev (2009-05-13):  
# According to newspaper Asian Tribune (May 6, 2009) Bangladesh may introduce  
# Daylight Saving Time from June 16 to Sept 30  
#  
# Bangladesh to introduce daylight saving time likely from June 16  
# <http://www.asiantribune.com/?q=node/17288>  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_bangladesh02.html](http://www.worldtimezone.com/dst_news/dst_news_bangladesh02.html)  
#  
# "... Bangladesh government has decided to switch daylight saving time from  
# June  
# 16 till September 30 in a bid to ensure maximum use of daylight to cope with  
# crippling power crisis. "  
#  
# The switch will remain in effect from June 16 to Sept 30 (2009) but if  
# implemented the next year, it will come in force from April 1, 2010

# From Steffen Thorsen (2009-06-02):  
# They have finally decided now, but changed the start date to midnight between  
# the 19th and 20th, and they have not set the end date yet.  
#  
# Some sources:  
# <http://in.reuters.com/article/southAsiaNews/idINIndia-40017620090601>  
# <http://bdnews24.com/details.php?id=85889&cid=2>  
#  
# Our wrap-up:  
# <http://www.timeanddate.com/news/time/bangladesh-daylight-saving-2009.html>

# From A. N. M. Kamrus Saadat (2009-06-15):  
# Finally we've got the official mail regarding DST start time where DST start  
# time is mentioned as Jun 19 2009, 23:00 from BTRC (Bangladesh  
# Telecommunication Regulatory Commission).  
#  
# No DST end date has been announced yet.

# From Alexander Krivenyshev (2009-09-25):  
# Bangladesh won't go back to Standard Time from October 1, 2009,

```

# instead it will continue DST measure till the cabinet makes a fresh decision.
#
# Following report by same newspaper-"The Daily Star Friday":
# "DST change awaits cabinet decision-Clock won't go back by 1-hr from Oct 1"
# http://www.thedailystar.net/newDesign/news-details.php?nid=107021
# http://www.worldtimezone.com/dst_news/dst_news_bangladesh04.html

# From Steffen Thorsen (2009-10-13):
# IANS (Indo-Asian News Service) now reports:
# Bangladesh has decided that the clock advanced by an hour to make
# maximum use of daylight hours as an energy saving measure would
# "continue for an indefinite period."
#
# One of many places where it is published:
# http://www.thaindian.com/newsportal/business/bangladesh-to-continue-indefinitely-with-advanced-
time_100259987.html

# From Alexander Krivenyshev (2009-12-24):
# According to Bangladesh newspaper "The Daily Star,"
# Bangladesh will change its clock back to Standard Time on Dec 31, 2009.
#
# Clock goes back 1-hr on Dec 31 night.
# http://www.thedailystar.net/newDesign/news-details.php?nid=119228
# http://www.worldtimezone.com/dst_news/dst_news_bangladesh05.html
#
# "...The government yesterday decided to put the clock back by one hour
# on December 31 midnight and the new time will continue until March 31,
# 2010 midnight. The decision came at a cabinet meeting at the Prime
# Minister's Office last night..."

# From Alexander Krivenyshev (2010-03-22):
# According to Bangladesh newspaper "The Daily Star,"
# Cabinet cancels Daylight Saving Time
# http://www.thedailystar.net/newDesign/latest_news.php?nid=22817
# http://www.worldtimezone.com/dst_news/dst_news_bangladesh06.html

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Dhaka 2009 only - Jun 19 23:00 1:00 S
Rule Dhaka 2009 only - Dec 31 24:00 0 -

# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Dhaka 6:01:40 - LMT 1890
5:53:20 - HMT 1941 Oct # Howrah Mean Time?
6:30 - BURT 1942 May 15 # Burma Time
5:30 - IST 1942 Sep
6:30 - BURT 1951 Sep 30
6:00 - DACT 1971 Mar 26 # Dacca Time
6:00 - BDT 2009

```

6:00 Dhaka BD%ST

# Bhutan

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Thimphu 5:58:36 - LMT 1947 Aug 15 # or Thimbu

5:30 - IST 1987 Oct

6:00 - BTT # Bhutan Time

# British Indian Ocean Territory

# Whitman and the 1995 CIA time zone map say 5:00, but the

# 1997 and later maps say 6:00. Assume the switch occurred in 1996.

# We have no information as to when standard time was introduced;

# assume it occurred in 1907, the same year as Mauritius (which

# then contained the Chagos Archipelago).

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Indian/Chagos 4:49:40 - LMT 1907

5:00 - IOT 1996 # BIOT Time

6:00 - IOT

# Brunei

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Brunei 7:39:40 - LMT 1926 Mar # Bandar Seri Begawan

7:30 - BNT 1933

8:00 - BNT

# Burma / Myanmar

# Milne says 6:24:40 was the meridian of the time ball observatory at Rangoon.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Rangoon 6:24:40 - LMT 1880 # or Yangon

6:24:40 - RMT 1920 # Rangoon Mean Time?

6:30 - BURT 1942 May # Burma Time

9:00 - JST 1945 May 3

6:30 - MMT # Myanmar Time

# Cambodia

# See Asia/Bangkok.

# China

# From Guy Harris:

# People's Republic of China. Yes, they really have only one time zone.

# From Bob Devine (1988-01-28):

# No they don't. See TIME mag, 1986-02-17 p.52. Even though

# China is across 4 physical time zones, before Feb 1, 1986 only the

# Peking (Beijing) time zone was recognized. Since that date, China  
# has two of 'em - Peking's and rmqi (named after the capital of  
# the Xinjiang Uyghur Autonomous Region). I don't know about DST for it.  
#

# . . . I just deleted the DST table and this editor makes it too  
# painful to suck in another copy. So, here is what I have for  
# DST start/end dates for Peking's time zone (info from AP):  
#

# 1986 May 4 - Sept 14  
# 1987 mid-April - ??

# From U. S. Naval Observatory (1989-01-19):  
# CHINA 8 H AHEAD OF UTC ALL OF CHINA, INCL TAIWAN  
# CHINA 9 H AHEAD OF UTC APR 17 - SEP 10

# From Paul Eggert (2008-02-11):  
# Jim Mann, "A clumsy embrace for another western custom: China on daylight  
# time - sort of", Los Angeles Times, 1986-05-05 ... [says] that China began  
# observing daylight saving time in 1986.

# From Paul Eggert (2014-06-30):  
# Shanks & Pottenger have China switching to a single time zone in 1980, but  
# this doesn't seem to be correct. They also write that China observed summer  
# DST from 1986 through 1991, which seems to match the above commentary, so  
# go with them for DST rules as follows:  
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Shang 1940 only - Jun 3 0:00 1:00 D  
Rule Shang 1940 1941 - Oct 1 0:00 0 S  
Rule Shang 1941 only - Mar 16 0:00 1:00 D  
Rule PRC 1986 only - May 4 0:00 1:00 D  
Rule PRC 1986 1991 - Sep Sun>=11 0:00 0 S  
Rule PRC 1987 1991 - Apr Sun>=10 0:00 1:00 D

# From Anthony Fok (2001-12-20):  
# BTW, I did some research on-line and found some info regarding these five  
# historic timezones from some Taiwan websites. And yes, there are official  
# Chinese names for these locales (before 1949).  
#

# From Jesper Nrgaard Welen (2006-07-14):  
# I have investigated the timezones around 1970 on the  
# <http://www.astro.com/atlas> site [with provinces and county  
# boundaries summarized below].... A few other exceptions were two  
# counties on the Sichuan side of the Xizang-Sichuan border,  
# counties Dege and Baiyu which lies on the Sichuan side and are  
# therefore supposed to be GMT+7, Xizang region being GMT+6, but Dege  
# county is GMT+8 according to astro.com while Baiyu county is GMT+6  
# (could be true), for the moment I am assuming that those two  
# counties are mistakes in the astro.com data.

# From Paul Eggert (2014-06-30):  
# Alois Treindl kindly sent me translations of the following two sources:  
#  
# (1)  
# Guo Qingsheng (National Time-Service Center, CAS, Xi'an 710600, China)  
# Beijing Time at the Beginning of the PRC  
# China Historical Materials of Science and Technology  
# (Zhongguo ke ji shi liao, ), Vol. 24, No. 1 (2003)  
# It gives evidence that at the beginning of the PRC, Beijing time was  
# officially apparent solar time! However, Guo also says that the  
# evidence is dubious, as the relevant institute of astronomy had not  
# been taken over by the PRC yet. It's plausible that apparent solar  
# time was announced but never implemented, and that people continued  
# to use UT+8. As the Shanghai radio station (and I presume the  
# observatory) was still under control of French missionaries, it  
# could well have ignored any such mandate.  
#  
# (2)  
# Guo Qing-sheng (Shaanxi Astronomical Observatory, CAS, Xi'an 710600, China)  
# A Study on the Standard Time Changes for the Past 100 Years in China  
# [undated and unknown publication location]  
# It says several things:  
# \* The Qing dynasty used local apparent solar time throughout China.  
# \* The Republic of China instituted Beijing mean solar time effective  
# the official calendar book of 1914.  
# \* The French Concession in Shanghai set up signal stations in  
# French docks in the 1890s, controlled by Xujiahui (Zikawei)  
# Observatory and set to local mean time.  
# \* "From the end of the 19th century" it changed to UT+8.  
# \* Chinese Customs (by then reduced to a tool of foreign powers)  
# eventually standardized on this time for all ports, and it  
# became used by railways as well.  
# \* In 1918 the Central Observatory proposed dividing China into  
# five time zones (see below for details). This caught on  
# at first only in coastal areas observing UT+8.  
# \* During WWII all of China was in theory was at UT+7. In practice  
# this was ignored in the west, and I presume was ignored in  
# Japanese-occupied territory.  
# \* Japanese-occupied Manchuria was at UT+9, i.e., Japan time.  
# \* The five-zone plan was resurrected after WWII and officially put into  
# place (with some modifications) in March 1948. It's not clear  
# how well it was observed in areas under Nationalist control.  
# \* The People's Liberation Army used UT+8 during the civil war.  
#  
# An AP article "Shanghai Internat'l Area Little Changed" in the  
# Lewiston (ME) Daily Sun (1939-05-29), p 17, said "Even the time is  
# different - the occupied districts going by Tokyo time, an hour

# ahead of that prevailing in the rest of Shanghai." Guess that the  
# Xujiahui Observatory was under French control and stuck with UT+8.  
#  
# In earlier versions of this file, China had many separate Zone entries, but  
# this was based on what were apparently incorrect data in Shanks & Pottenger.  
# This has now been simplified to the two entries Asia/Shanghai and  
# Asia/Urumqi, with the others being links for backward compatibility.  
# Proposed in 1918 and theoretically in effect until 1949 (although in practice  
# mainly observed in coastal areas), the five zones were:  
#  
# Changbai Time ("Long-white Time", Long-white = Heilongjiang area) UT+8.5  
# Asia/Harbin (currently a link to Asia/Shanghai)  
# Heilongjiang (except Mohe county), Jilin  
#  
# Zhongyuan Time ("Central plain Time") UT+8  
# Asia/Shanghai  
# most of China  
# This currently represents most other zones as well,  
# as apparently these regions have been the same since 1970.  
# Milne gives 8:05:43.2 for Xujiahui Observatory time; round to nearest.  
# Guo says Shanghai switched to UT+8 "from the end of the 19th century".  
#  
# Long-shu Time (probably due to Long and Shu being two names of that area) UT+7  
# Asia/Chongqing (currently a link to Asia/Shanghai)  
# Guangxi, Guizhou, Hainan, Ningxia, Sichuan, Shaanxi, and Yunnan;  
# most of Gansu; west Inner Mongolia; west Qinghai; and the Guangdong  
# counties Deqing, Enping, Kaiping, Luoding, Taishan, Xinxing,  
# Yangchun, Yangjiang, Yu'nan, and Yunfu.  
#  
# Xin-zang Time ("Xinjiang-Tibet Time") UT+6  
# Asia/Urumqi  
# This currently represents Kunlun Time as well,  
# as apparently the two regions have been the same since 1970.  
# The Gansu counties Aksay, Anxi, Dunhuang, Subei; west Qinghai;  
# the Guangdong counties Xuwen, Haikang, Suixi, Lianjiang,  
# Zhanjiang, Wuchuan, Huazhou, Gaozhou, Maoming, Dianbai, and Xinyi;  
# east Tibet, including Lhasa, Chamdo, Shigaise, Jimsar, Shawan and Hutubi;  
# east Xinjiang, including rmqi, Turpan, Karamay, Korla, Minfeng, Jinghe,  
# Wusu, Qiemo, Xinyan, Wulanwusu, Jinghe, Yumin, Tacheng, Tuoli, Emin,  
# Shihezi, Changji, Yanqi, Heshuo, Tuokexun, Tulufan, Shanshan, Hami,  
# Fukang, Kuitun, Kumukuli, Miqan, Qitai, and Turfan.  
#  
# Kunlun Time UT+5.5  
# Asia/Kashgar (currently a link to Asia/Urumqi)  
# West Tibet, including Pulan, Aheqi, Shufu, Shule;  
# West Xinjiang, including Aksu, Atushi, Yining, Hetian, Cele, Luopu, Nileke,  
# Zhaosu, Tekesi, Gongliu, Chabuchaer, Huocheng, Bole, Pishan, Suiding,  
# and Yarkand.



# From Luther Ma (2009-10-17):

# Almost all (>99.9%) ethnic Chinese (properly ethnic Han) living in  
# Xinjiang use Chinese Standard Time. Some are aware of Xinjiang time,  
# but have no need of it. All planes, trains, and schools function on  
# what is called "Beijing time." When Han make an appointment in Chinese  
# they implicitly use Beijing time.

#

# On the other hand, ethnic Uyghurs, who make up about half the  
# population of Xinjiang, typically use "Xinjiang time" which is two  
# hours behind Beijing time, or UTC +0600. The government of the Xinjiang  
# Uyghur Autonomous Region, (XAUR, or just Xinjiang for short) as well as  
# local governments such as the rmqi city government use both times in  
# publications, referring to what is popularly called Xinjiang time as  
# "rmqi time." When Uyghurs make an appointment in the Uyghur language  
# they almost invariably use Xinjiang time.

#

# (Their ethnic Han compatriots would typically have no clue of its  
# widespread use, however, because so extremely few of them are fluent in  
# Uyghur, comparable to the number of Anglo-Americans fluent in Navajo.)

#

# (...As with the rest of China there was a brief interval ending in 1990  
# or 1991 when summer time was in use. The confusion was severe, with  
# the province not having dual times but four times in use at the same  
# time. Some areas remained on standard Xinjiang time or Beijing time and  
# others moving their clocks ahead.)

# From Luther Ma (2009-11-19):

# With the risk of being redundant to previous answers these are the most common  
# English "transliterations" (w/o using non-English symbols):

#

# 1. Wulumuqi...

# 2. Kashi...

# 3. Urumqi...

# 4. Kashgar...

# ...

# 5. It seems that Uyghurs in rmqi has been using Xinjiang since at least the  
# 1960's. I know of one Han, now over 50, who grew up in the surrounding  
# countryside and used Xinjiang time as a child.

#

# 6. Likewise for Kashgar and the rest of south Xinjiang I don't know of any  
# start date for Xinjiang time.

#

# Without having access to local historical records, nor the ability to legally  
# publish them, I would go with October 1, 1949, when Xinjiang became the Uyghur  
# Autonomous Region under the PRC. (Before that Uyghurs, of course, would also  
# not be using Beijing time, but some local time.)

# From David Cochrane (2014-03-26):  
# Just a confirmation that rmqi time was implemented in rmqi on 1 Feb 1986:  
# <http://content.time.com/time/magazine/article/0,9171,960684,00.html>

# From Luther Ma (2014-04-22):  
# I have interviewed numerous people of various nationalities and from  
# different localities in Xinjiang and can confirm the information in Guo's  
# report regarding Xinjiang, as well as the Time article reference by David  
# Cochrane. Whether officially recognized or not (and both are officially  
# recognized), two separate times have been in use in Xinjiang since at least  
# the Cultural Revolution: Xinjiang Time (XJT), aka rmqi Time or local time;  
# and Beijing Time. There is no confusion in Xinjiang as to which name refers  
# to which time. Both are widely used in the province, although in some  
# population groups might be use one to the exclusion of the other. The only  
# problem is that computers and smart phones list rmqi (or Kashgar) as  
# having the same time as Beijing.

# From Paul Eggert (2014-06-30):  
# In the early days of the PRC, Tibet was given its own time zone (UT+6) but  
# this was withdrawn in 1959 and never reinstated; see Tubten Khtsun,  
# Memories of life in Lhasa under Chinese Rule, Columbia U Press, ISBN  
# 978-0231142861 (2008), translator's introduction by Matthew Akester, p x.  
# As this is before our 1970 cutoff, Tibet doesn't need a separate zone.  
#  
# Xinjiang Time is well-documented as being officially recognized. E.g., see  
# "The Working-Calendar for The Xinjiang Uygur Autonomous Region Government"  
# <http://www.sinkiang.gov.cn/service/ourworking/> (2014-04-22).  
# Unfortunately, we have no good records of time in Xinjiang before 1986.  
# During the 20th century parts of Xinjiang were ruled by the Qing dynasty,  
# the Republic of China, various warlords, the First and Second East Turkestan  
# Republics, the Soviet Union, the Kuomintang, and the People's Republic of  
# China, and tracking down all these organizations' timekeeping rules would be  
# quite a trick. Approximate this lost history by a transition from LMT to  
# XJT at the start of 1928, the year of accession of the warlord Jin Shuren,  
# which happens to be the date given by Shanks & Pottenger (no doubt as a  
# guess) as the transition from LMT. Ignore the usage of UT+8 before  
# 1986-02-01 under the theory that the transition date to UT+8 is unknown and  
# that the sort of users who prefer Asia/Urumsqi now typically ignored the  
# UT+8 mandate back then.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
# Beijing time, used throughout China; represented by Shanghai.  
Zone Asia/Shanghai 8:05:43 - LMT 1901  
8:00 Shang C%sT 1949  
8:00 PRC C%sT  
# Xinjiang time, used by many in western China; represented by rmqi / rmchi  
# / Wulumuqi. (Please use Asia/Shanghai if you prefer Beijing time.)  
Zone Asia/Urumsqi 5:50:20 - LMT 1928

6:00 - XJT

# Hong Kong (Xianggang)

# Milne gives 7:36:41.7; round this.

# From Lee Yiu Chung (2009-10-24):

# I found there are some mistakes for the...DST rule for Hong

# Kong. [According] to the DST record from Hong Kong Observatory (actually,

# it is not [an] observatory, but the official meteorological agency of HK,

# and also serves as the official timing agency), there are some missing

# and incorrect rules. Although the exact switch over time is missing, I

# think 3:30 is correct. The official DST record for Hong Kong can be

# obtained from

# <http://www.hko.gov.hk/gts/time/Summertime.htm>

# From Arthur David Olson (2009-10-28):

# Here are the dates given at

# <http://www.hko.gov.hk/gts/time/Summertime.htm>

# as of 2009-10-28:

# Year      Period

# 1941      1 Apr to 30 Sep

# 1942      Whole year

# 1943      Whole year

# 1944      Whole year

# 1945      Whole year

# 1946      20 Apr to 1 Dec

# 1947      13 Apr to 30 Dec

# 1948      2 May to 31 Oct

# 1949      3 Apr to 30 Oct

# 1950      2 Apr to 29 Oct

# 1951      1 Apr to 28 Oct

# 1952      6 Apr to 25 Oct

# 1953      5 Apr to 1 Nov

# 1954      21 Mar to 31 Oct

# 1955      20 Mar to 6 Nov

# 1956      18 Mar to 4 Nov

# 1957      24 Mar to 3 Nov

# 1958      23 Mar to 2 Nov

# 1959      22 Mar to 1 Nov

# 1960      20 Mar to 6 Nov

# 1961      19 Mar to 5 Nov

# 1962      18 Mar to 4 Nov

# 1963      24 Mar to 3 Nov

# 1964      22 Mar to 1 Nov

# 1965      18 Apr to 17 Oct

# 1966      17 Apr to 16 Oct

# 1967 16 Apr to 22 Oct  
 # 1968 21 Apr to 20 Oct  
 # 1969 20 Apr to 19 Oct  
 # 1970 19 Apr to 18 Oct  
 # 1971 18 Apr to 17 Oct  
 # 1972 16 Apr to 22 Oct  
 # 1973 22 Apr to 21 Oct  
 # 1973/74 30 Dec 73 to 20 Oct 74  
 # 1975 20 Apr to 19 Oct  
 # 1976 18 Apr to 17 Oct  
 # 1977 Nil  
 # 1978 Nil  
 # 1979 13 May to 21 Oct  
 # 1980 to Now Nil  
 # The page does not give start or end times of day.  
 # The page does not give a start date for 1942.  
 # The page does not give an end date for 1945.  
 # The Japanese occupation of Hong Kong began on 1941-12-25.  
 # The Japanese surrender of Hong Kong was signed 1945-09-15.  
 # For lack of anything better, use start of those days as the transition times.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule HK 1941 only - Apr 1 3:30 1:00 S  
 Rule HK 1941 only - Sep 30 3:30 0 -  
 Rule HK 1946 only - Apr 20 3:30 1:00 S  
 Rule HK 1946 only - Dec 1 3:30 0 -  
 Rule HK 1947 only - Apr 13 3:30 1:00 S  
 Rule HK 1947 only - Dec 30 3:30 0 -  
 Rule HK 1948 only - May 2 3:30 1:00 S  
 Rule HK 1948 1951 - Oct lastSun 3:30 0 -  
 Rule HK 1952 only - Oct 25 3:30 0 -  
 Rule HK 1949 1953 - Apr Sun>=1 3:30 1:00 S  
 Rule HK 1953 only - Nov 1 3:30 0 -  
 Rule HK 1954 1964 - Mar Sun>=18 3:30 1:00 S  
 Rule HK 1954 only - Oct 31 3:30 0 -  
 Rule HK 1955 1964 - Nov Sun>=1 3:30 0 -  
 Rule HK 1965 1976 - Apr Sun>=16 3:30 1:00 S  
 Rule HK 1965 1976 - Oct Sun>=16 3:30 0 -  
 Rule HK 1973 only - Dec 30 3:30 1:00 S  
 Rule HK 1979 only - May Sun>=8 3:30 1:00 S  
 Rule HK 1979 only - Oct Sun>=16 3:30 0 -

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Hong\_Kong 7:36:42 - LMT 1904 Oct 30  
 8:00 HK HK%sT 1941 Dec 25  
 9:00 - JST 1945 Sep 15  
 8:00 HK HK%sT

#####

# Taiwan

# From smallufo (2010-04-03):

# According to Taiwan's CWB [Central Weather Bureau],

# <http://www.cwb.gov.tw/V6/astronomy/cdata/summert.htm>

# Taipei has DST in 1979 between July 1st and Sep 30.

# From Yu-Cheng Chuang (2013-07-12):

# On Dec 28, 1895, the Meiji Emperor announced Ordinance No. 167 of

# Meiji Year 28 "The clause about standard time", mentioned that

# Taiwan and Penghu Islands, as well as Yaeyama and Miyako Islands

# (both in Okinawa) adopt the Western Standard Time which is based on

# 120E. The adoption began from Jan 1, 1896. The original text can be

# found on Wikisource:

# [http://ja.wikisource.org/wiki/\\_\(\)](http://ja.wikisource.org/wiki/_())

# ... This could be the first adoption of time zone in Taiwan, because

# during the Qing Dynasty, it seems that there was no time zone

# declared officially.

#

# Later, in the beginning of World War II, on Sep 25, 1937, the Showa

# Emperor announced Ordinance No. 529 of Showa Year 12 "The clause of

# revision in the ordinance No. 167 of Meiji year 28 about standard

# time", in which abolished the adoption of Western Standard Time in

# western islands (listed above), which means the whole Japan

# territory, including later occupations, adopt Japan Central Time

# (UTC+9). The adoption began on Oct 1, 1937. The original text can

# be found on Wikisource:

# <http://ja.wikisource.org/wiki/>

#

# That is, the time zone of Taipei switched to UTC+9 on Oct 1, 1937.

# From Yu-Cheng Chuang (2014-07-02):

# I've found more evidence about when the time zone was switched from UTC+9

# back to UTC+8 after WW2. I believe it was on Sep 21, 1945. In a document

# during Japanese era [1] in which the officer told the staff to change time

# zone back to Western Standard Time (UTC+8) on Sep 21. And in another

# history page of National Cheng Kung University [2], on Sep 21 there is a

# note "from today, switch back to Western Standard Time". From these two

# materials, I believe that the time zone change happened on Sep 21. And

# today I have found another monthly journal called "The Astronomical Herald"

# from The Astronomical Society of Japan [3] in which it mentioned the fact

# that:

#

# 1. Standard Time of the Country (Japan) was adopted on Jan 1, 1888, using

# the time at 135E (GMT+9)

#

# 2. Standard Time of the Country was renamed to Central Standard Time, on Jan

# 1, 1898, and on the same day, the new territories Taiwan and Penghu islands,  
# as well as Yaeyama and Miyako islands, adopted a new time zone called  
# Western Standard Time, which is in GMT+8.  
#  
# 3. Western Standard Time was deprecated on Sep 30, 1937. From then all the  
# territories of Japan adopted the same time zone, which is Central Standard  
# Time.  
#  
# [1] Academica Historica, Taiwan:  
# [http://163.29.208.22:8080/govsaleShowImage/connect\\_img.php?s=00101738900090036&e=00101738900090037](http://163.29.208.22:8080/govsaleShowImage/connect_img.php?s=00101738900090036&e=00101738900090037)  
# [2] Nat'l Cheng Kung University 70th Anniversary Special Site:  
# [http://www.ncku.edu.tw/~ncku70/menu/001/01\\_01.htm](http://www.ncku.edu.tw/~ncku70/menu/001/01_01.htm)  
# [3] Yukio Niimi, The Standard Time in Japan (1997), p.475:  
# [http://www.asj.or.jp/geppou/archive\\_open/1997/pdf/19971001c.pdf](http://www.asj.or.jp/geppou/archive_open/1997/pdf/19971001c.pdf)

# Yu-Cheng Chuang (2014-07-03):  
# I finally have found the real official gazette about changing back to  
# Western Standard Time on Sep 21 in Taiwan. It's Taiwan Governor-General  
# Bulletin No. 386 in Showa 20 years (1945), published on Sep 19, 1945. [1] ...  
# [It] abolishes Bulletin No. 207 in Showa 12 years (1937), which is a local  
# bulletin in Taiwan for that Ordinance No. 529. It also mentioned that 1am on  
# Sep 21, 1945 will be 12am on Sep 21. I think this bulletin is much more  
# official than the one I mentioned in my first mail, because it's from the  
# top-level government in Taiwan. If you're going to quote any resource, this  
# would be a good one.  
# [1] Taiwan Governor-General Gazette, No. 1018, Sep 19, 1945:  
#  
[http://db2.th.gov.tw/db2/view/viewImg.php?imgcode=0072031018a&num=19&bgn=019&end=019&otherImg=&ty  
pe=gener](http://db2.th.gov.tw/db2/view/viewImg.php?imgcode=0072031018a&num=19&bgn=019&end=019&otherImg=&type=gener)

# From Yu-Cheng Chuang (2014-07-02):  
# In 1946, DST in Taiwan was from May 15 and ended on Sep 30. The info from  
# Central Weather Bureau website was not correct.  
#  
# Original Bulletin:  
# <http://subtpg.tpg.gov.tw/og/image2.asp?f=03502F0AKM1AF>  
# <http://subtpg.tpg.gov.tw/og/image2.asp?f=0350300AKM1B0> (cont.)  
#  
# In 1947, DST in Taiwan was expanded to Oct 31. There is a backup of that  
# telegram announcement from Taiwan Province Government:  
#  
# <http://subtpg.tpg.gov.tw/og/image2.asp?f=0360310AKZ431>  
#  
# Here is a brief translation:  
#  
# The Summer Time this year is adopted from midnight Apr 15 until Sep 20  
# midnight. To save (energy?) consumption, we're expanding Summer Time  
# adoption till Oct 31 midnight.

```

#
# The Central Weather Bureau website didn't mention that, however it can
# be found from historical government announcement database.

# From Paul Eggert (2014-07-03):
# As per Yu-Cheng Chuang, say that Taiwan was at UT+9 from 1937-10-01
# until 1945-09-21 at 01:00, overriding Shanks & Pottenger.
# Likewise, use Yu-Cheng Chuang's data for DST in Taiwan.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Taiwan 1946 only - May 15 0:00 1:00 D
Rule Taiwan 1946 only - Oct 1 0:00 0 S
Rule Taiwan 1947 only - Apr 15 0:00 1:00 D
Rule Taiwan 1947 only - Nov 1 0:00 0 S
Rule Taiwan 1948 1951 - May 1 0:00 1:00 D
Rule Taiwan 1948 1951 - Oct 1 0:00 0 S
Rule Taiwan 1952 only - Mar 1 0:00 1:00 D
Rule Taiwan 1952 1954 - Nov 1 0:00 0 S
Rule Taiwan 1953 1959 - Apr 1 0:00 1:00 D
Rule Taiwan 1955 1961 - Oct 1 0:00 0 S
Rule Taiwan 1960 1961 - Jun 1 0:00 1:00 D
Rule Taiwan 1974 1975 - Apr 1 0:00 1:00 D
Rule Taiwan 1974 1975 - Oct 1 0:00 0 S
Rule Taiwan 1979 only - Jul 1 0:00 1:00 D
Rule Taiwan 1979 only - Oct 1 0:00 0 S

# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
# Taipei or Taibei or T'ai-peí
Zone Asia/Taipei 8:06:00 - LMT 1896 Jan 1
    8:00 - JWST 1937 Oct 1
    9:00 - JST 1945 Sep 21 1:00
    8:00 Taiwan C%sT

# Macau (Macao, Aomen)
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Macau 1961 1962 - Mar Sun>=16 3:30 1:00 S
Rule Macau 1961 1964 - Nov Sun>=1 3:30 0 -
Rule Macau 1963 only - Mar Sun>=16 0:00 1:00 S
Rule Macau 1964 only - Mar Sun>=16 3:30 1:00 S
Rule Macau 1965 only - Mar Sun>=16 0:00 1:00 S
Rule Macau 1965 only - Oct 31 0:00 0 -
Rule Macau 1966 1971 - Apr Sun>=16 3:30 1:00 S
Rule Macau 1966 1971 - Oct Sun>=16 3:30 0 -
Rule Macau 1972 1974 - Apr Sun>=15 0:00 1:00 S
Rule Macau 1972 1973 - Oct Sun>=15 0:00 0 -
Rule Macau 1974 1977 - Oct Sun>=15 3:30 0 -
Rule Macau 1975 1977 - Apr Sun>=15 3:30 1:00 S
Rule Macau 1978 1980 - Apr Sun>=15 0:00 1:00 S

```

Rule Macau 1978 1980 - Oct Sun>=15 0:00 0 -  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Macau 7:34:20 - LMT 1912 Jan 1  
8:00 Macau MO%sT 1999 Dec 20 # return to China  
8:00 PRC C%sT

#####

# Cyprus  
#  
# Milne says the Eastern Telegraph Company used 2:14:00. Stick with LMT.  
#  
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Cyprus 1975 only - Apr 13 0:00 1:00 S  
Rule Cyprus 1975 only - Oct 12 0:00 0 -  
Rule Cyprus 1976 only - May 15 0:00 1:00 S  
Rule Cyprus 1976 only - Oct 11 0:00 0 -  
Rule Cyprus 1977 1980 - Apr Sun>=1 0:00 1:00 S  
Rule Cyprus 1977 only - Sep 25 0:00 0 -  
Rule Cyprus 1978 only - Oct 2 0:00 0 -  
Rule Cyprus 1979 1997 - Sep lastSun 0:00 0 -  
Rule Cyprus 1981 1998 - Mar lastSun 0:00 1:00 S  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Nicosia 2:13:28 - LMT 1921 Nov 14  
2:00 Cyprus EE%sT 1998 Sep  
2:00 EUAsia EE%sT  
# IATA SSIM (1998-09) has Cyprus using EU rules for the first time.

# Classically, Cyprus belongs to Asia; e.g. see Herodotus, Histories, I.72.  
# However, for various reasons many users expect to find it under Europe.  
Link Asia/Nicosia Europe/Nicosia

# Georgia  
# From Paul Eggert (1994-11-19):  
# Today's \_Economist\_ (p 60) reports that Georgia moved its clocks forward  
# an hour recently, due to a law proposed by Zurab Murvanidze,  
# an MP who went on a hunger strike for 11 days to force discussion about it!  
# We have no details, but we'll guess they didn't move the clocks back in fall.  
#  
# From Mathew Englander, quoting AP (1996-10-23 13:05-04):  
# Instead of putting back clocks at the end of October, Georgia  
# will stay on daylight savings time this winter to save energy,  
# President Eduard Shevardnadze decreed Wednesday.  
#  
# From the BBC via Joseph S. Myers (2004-06-27):  
#  
# Georgia moved closer to Western Europe on Sunday... The former Soviet



# republic has changed its time zone back to that of Moscow. As a result it  
# is now just four hours ahead of Greenwich Mean Time, rather than five hours  
# ahead. The switch was decreed by the pro-Western president of Georgia,  
# Mikheil Saakashvili, who said the change was partly prompted by the process  
# of integration into Europe.

# From Teimuraz Abashidze (2005-11-07):

# Government of Georgia ... decided to NOT CHANGE daylight savings time on  
# [Oct.] 30, as it was done before during last more than 10 years.  
# Currently, we are in fact GMT +4:00, as before 30 October it was GMT  
# +3:00.... The problem is, there is NO FORMAL LAW or governmental document  
# about it. As far as I can find, I was told, that there is no document,  
# because we just DIDN'T ISSUE document about switching to winter time....  
# I don't know what can be done, especially knowing that some years ago our  
# DST rules were changed THREE TIMES during one month.

# Milne 1899 says Tbilisi (Tiflis) time was 2:59:05.7.

# Byalokoz 1919 says Georgia was 2:59:11.

# Go with Byalokoz.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Tbilisi 2:59:11 - LMT 1880

2:59:11 - TBMT 1924 May 2 # Tbilisi Mean Time

3:00 - TBIT 1957 Mar # Tbilisi Time

4:00 RussiaAsia TBI%sT 1991 Mar 31 2:00s

3:00 1:00 TBIST 1991 Apr 9 # independence

3:00 RussiaAsia GE%sT 1992 # Georgia Time

3:00 E-EurAsia GE%sT 1994 Sep lastSun

4:00 E-EurAsia GE%sT 1996 Oct lastSun

4:00 1:00 GEST 1997 Mar lastSun

4:00 E-EurAsia GE%sT 2004 Jun 27

3:00 RussiaAsia GE%sT 2005 Mar lastSun 2:00

4:00 - GET

# East Timor

# See Indonesia for the 1945 transition.

# From Joo Carrascalo, brother of the former governor of East Timor, in

# East Timor may be late for its millennium

# <<http://etan.org/et99c/december/26-31/30ETMAY.htm>> (1999-12-26/31):

# Portugal tried to change the time forward in 1974 because the sun

# rises too early but the suggestion raised a lot of problems with the

# Timorese and I still don't think it would work today because it

# conflicts with their way of life.

# From Paul Eggert (2000-12-04):

# We don't have any record of the above attempt.

# Most likely our records are incomplete, but we have no better data.

# From Manoel de Almeida e Silva, Deputy Spokesman for the UN Secretary-General  
# <http://www.hri.org/news/world/undh/2000/00-08-16.undh.html>  
# (2000-08-16):  
# The Cabinet of the East Timor Transition Administration decided  
# today to advance East Timor's time by one hour. The time change,  
# which will be permanent, with no seasonal adjustment, will happen at  
# midnight on Saturday, September 16.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Dili 8:22:20 - LMT 1912 Jan 1  
8:00 - TLT 1942 Feb 21 23:00 # E Timor Time  
9:00 - JST 1945 Sep 23  
9:00 - TLT 1976 May 3  
8:00 - WITA 2000 Sep 17 0:00  
9:00 - TLT

# India  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Kolkata 5:53:28 - LMT 1880 # Kolkata  
5:53:20 - HMT 1941 Oct # Howrah Mean Time?  
6:30 - BURT 1942 May 15 # Burma Time  
5:30 - IST 1942 Sep  
5:30 1:00 IST 1945 Oct 15  
5:30 - IST  
# The following are like Asia/Kolkata:  
# Andaman Is  
# Lakshadweep (Laccadive, Minicoy and Amindivi Is)  
# Nicobar Is

# Indonesia  
#  
# From Paul Eggert (2014-09-06):  
# The 1876 Report of the Secretary of the [US] Navy, p 306 says that Batavia  
# civil time was 7:07:12.5; round to even for Jakarta.  
#  
# From Gwillim Law (2001-05-28), overriding Shanks & Pottenger:  
# [http://www.sumatera-inc.com/go\\_to\\_invest/about\\_indonesia.asp#standtime](http://www.sumatera-inc.com/go_to_invest/about_indonesia.asp#standtime)  
# says that Indonesia's time zones changed on 1988-01-01. Looking at some  
# time zone maps, I think that must refer to Western Borneo (Kalimantan Barat  
# and Kalimantan Tengah) switching from UTC+8 to UTC+7.  
#  
# From Paul Eggert (2007-03-10):  
# Here is another correction to Shanks & Pottenger.  
# JohnTWB writes that Japanese forces did not surrender control in  
# Indonesia until 1945-09-01 00:00 at the earliest (in Jakarta) and  
# other formal surrender ceremonies were September 9, 11, and 13, plus

# September 12 for the regional surrender to Mountbatten in Singapore.  
# These would be the earliest possible times for a change.  
# Rgimes horaires pour le monde entier, by Henri Le Corre, (ditions  
# Traditionnelles, 1987, Paris) says that Java and Madura switched  
# from JST to UTC+07:30 on 1945-09-23, and gives 1944-09-01 for Jayapura  
# (Hollandia). For now, assume all Indonesian locations other than Jayapura  
# switched on 1945-09-23.  
#  
# From Paul Eggert (2013-08-11):  
# Normally the tz database uses English-language abbreviations, but in  
# Indonesia it's typical to use Indonesian-language abbreviations even  
# when writing in English. For example, see the English-language  
# summary published by the Time and Frequency Laboratory of the  
# Research Center for Calibration, Instrumentation and Metrology,  
# Indonesia, <<http://time.kim.lipi.go.id/time-eng.php>> (2006-09-29).  
# The abbreviations are:  
#  
# WIB - UTC+7 - Waktu Indonesia Barat (Indonesia western time)  
# WITA - UTC+8 - Waktu Indonesia Tengah (Indonesia central time)  
# WIT - UTC+9 - Waktu Indonesia Timur (Indonesia eastern time)  
#  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
# Java, Sumatra  
Zone Asia/Jakarta 7:07:12 - LMT 1867 Aug 10  
# Shanks & Pottenger say the next transition was at 1924 Jan 1 0:13,  
# but this must be a typo.  
7:07:12 - BMT 1923 Dec 31 23:47:12 # Batavia  
7:20 - JAVT 1932 Nov # Java Time  
7:30 - WIB 1942 Mar 23  
9:00 - JST 1945 Sep 23  
7:30 - WIB 1948 May  
8:00 - WIB 1950 May  
7:30 - WIB 1964  
7:00 - WIB  
# west and central Borneo  
Zone Asia/Pontianak 7:17:20 - LMT 1908 May  
7:17:20 - PMT 1932 Nov # Pontianak MT  
7:30 - WIB 1942 Jan 29  
9:00 - JST 1945 Sep 23  
7:30 - WIB 1948 May  
8:00 - WIB 1950 May  
7:30 - WIB 1964  
8:00 - WITA 1988 Jan 1  
7:00 - WIB  
# Sulawesi, Lesser Sundas, east and south Borneo  
Zone Asia/Makassar 7:57:36 - LMT 1920  
7:57:36 - MMT 1932 Nov # Macassar MT  
8:00 - WITA 1942 Feb 9

9:00 - JST 1945 Sep 23  
8:00 - WITA  
# Maluku Islands, West Papua, Papua  
Zone Asia/Jayapura 9:22:48 - LMT 1932 Nov  
9:00 - WIT 1944 Sep 1  
9:30 - ACST 1964  
9:00 - WIT

# Iran

# From Roozbeh Pournader (2003-03-15):  
# This is an English translation of what I just found (originally in Persian).  
# The Gregorian dates in brackets are mine:  
#  
# Official Newspaper No. 13548-1370/6/25 [1991-09-16]  
# No. 16760/T233 H 1370/6/10 [1991-09-01]  
#  
# The Rule About Change of the Official Time of the Country  
#  
# The Board of Ministers, in the meeting dated 1370/5/23 [1991-08-14],  
# based on the suggestion number 2221/D dated 1370/4/22 [1991-07-13]  
# of the Country's Organization for Official and Employment Affairs,  
# and referring to the law for equating the working hours of workers  
# and officers in the whole country dated 1359/4/23 [1980-07-14], and  
# for synchronizing the official times of the country, agreed that:  
#  
# The official time of the country will should move forward one hour  
# at the 24[:00] hours of the first day of Farvardin and should return  
# to its previous state at the 24[:00] hours of the 30th day of  
# Shahrivar.  
#  
# First Deputy to the President - Hassan Habibi  
#  
# From personal experience, that agrees with what has been followed  
# for at least the last 5 years. Before that, for a few years, the  
# date used was the first Thursday night of Farvardin and the last  
# Thursday night of Shahrivar, but I can't give exact dates....  
# I have also changed the abbreviations to what is considered correct  
# here in Iran, IRST for regular time and IRDT for daylight saving time.  
#  
# From Roozbeh Pournader (2005-04-05):  
# The text of the Iranian law, in effect since 1925, clearly mentions  
# that the true solar year is the measure, and there is no arithmetic  
# leap year calculation involved. There has never been any serious  
# plan to change that law....  
#  
# From Paul Eggert (2006-03-22):  
# Go with Shanks & Pottenger before Sept. 1991, and with Pournader thereafter.

```

# I used Ed Reingold's cal-persia in GNU Emacs 21.2 to check Persian dates,
# stopping after 2037 when 32-bit time_t's overflow.
# That cal-persia used Birashk's approximation, which disagrees with the solar
# calendar predictions for the year 2025, so I corrected those dates by hand.
#
# From Oscar van Vlijmen (2005-03-30), writing about future
# discrepancies between cal-persia and the Iranian calendar:
# For 2091 solar-longitude-after yields 2091-03-20 08:40:07.7 UT for
# the vernal equinox and that gets so close to 12:00 some local
# Iranian time that the definition of the correct location needs to be
# known exactly, amongst other factors. 2157 is even closer:
# 2157-03-20 08:37:15.5 UT. But the Gregorian year 2025 should give
# no interpretation problem whatsoever. By the way, another instant
# in the near future where there will be a discrepancy between
# arithmetical and astronomical Iranian calendars will be in 2058:
# vernal equinox on 2058-03-20 09:03:05.9 UT. The Java version of
# Reingold's/Dershowitz' calculator gives correctly the Gregorian date
# 2058-03-21 for 1 Farvardin 1437 (astronomical).
#
# From Steffen Thorsen (2006-03-22):
# Several of my users have reported that Iran will not observe DST anymore:
# http://www.irna.ir/en/news/view/line-17/0603193812164948.htm
#
# From Reuters (2007-09-16), with a heads-up from Jesper Nrgaard Welen:
# ... the Guardian Council ... approved a law on Sunday to re-introduce
# daylight saving time ...
# http://uk.reuters.com/article/oilRpt/idUKBLA65048420070916
#
# From Roozbeh Pournader (2007-11-05):
# This is quoted from Official Gazette of the Islamic Republic of
# Iran, Volume 63, No. 18242, dated Tuesday 1386/6/24
# [2007-10-16]. I am doing the best translation I can:...
# The official time of the country will be moved forward for one hour
# on the 24 hours of the first day of the month of Farvardin and will
# be changed back to its previous state on the 24 hours of the
# thirtieth day of Shahrivar.
#
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Iran 1978 1980 - Mar 21 0:00 1:00 D
Rule Iran 1978 only - Oct 21 0:00 0 S
Rule Iran 1979 only - Sep 19 0:00 0 S
Rule Iran 1980 only - Sep 23 0:00 0 S
Rule Iran 1991 only - May 3 0:00 1:00 D
Rule Iran 1992 1995 - Mar 22 0:00 1:00 D
Rule Iran 1991 1995 - Sep 22 0:00 0 S
Rule Iran 1996 only - Mar 21 0:00 1:00 D
Rule Iran 1996 only - Sep 21 0:00 0 S
Rule Iran 1997 1999 - Mar 22 0:00 1:00 D

```

Rule Iran 1997 1999 - Sep 22 0:00 0 S  
Rule Iran 2000 only - Mar 21 0:00 1:00 D  
Rule Iran 2000 only - Sep 21 0:00 0 S  
Rule Iran 2001 2003 - Mar 22 0:00 1:00 D  
Rule Iran 2001 2003 - Sep 22 0:00 0 S  
Rule Iran 2004 only - Mar 21 0:00 1:00 D  
Rule Iran 2004 only - Sep 21 0:00 0 S  
Rule Iran 2005 only - Mar 22 0:00 1:00 D  
Rule Iran 2005 only - Sep 22 0:00 0 S  
Rule Iran 2008 only - Mar 21 0:00 1:00 D  
Rule Iran 2008 only - Sep 21 0:00 0 S  
Rule Iran 2009 2011 - Mar 22 0:00 1:00 D  
Rule Iran 2009 2011 - Sep 22 0:00 0 S  
Rule Iran 2012 only - Mar 21 0:00 1:00 D  
Rule Iran 2012 only - Sep 21 0:00 0 S  
Rule Iran 2013 2015 - Mar 22 0:00 1:00 D  
Rule Iran 2013 2015 - Sep 22 0:00 0 S  
Rule Iran 2016 only - Mar 21 0:00 1:00 D  
Rule Iran 2016 only - Sep 21 0:00 0 S  
Rule Iran 2017 2019 - Mar 22 0:00 1:00 D  
Rule Iran 2017 2019 - Sep 22 0:00 0 S  
Rule Iran 2020 only - Mar 21 0:00 1:00 D  
Rule Iran 2020 only - Sep 21 0:00 0 S  
Rule Iran 2021 2023 - Mar 22 0:00 1:00 D  
Rule Iran 2021 2023 - Sep 22 0:00 0 S  
Rule Iran 2024 only - Mar 21 0:00 1:00 D  
Rule Iran 2024 only - Sep 21 0:00 0 S  
Rule Iran 2025 2027 - Mar 22 0:00 1:00 D  
Rule Iran 2025 2027 - Sep 22 0:00 0 S  
Rule Iran 2028 2029 - Mar 21 0:00 1:00 D  
Rule Iran 2028 2029 - Sep 21 0:00 0 S  
Rule Iran 2030 2031 - Mar 22 0:00 1:00 D  
Rule Iran 2030 2031 - Sep 22 0:00 0 S  
Rule Iran 2032 2033 - Mar 21 0:00 1:00 D  
Rule Iran 2032 2033 - Sep 21 0:00 0 S  
Rule Iran 2034 2035 - Mar 22 0:00 1:00 D  
Rule Iran 2034 2035 - Sep 22 0:00 0 S  
Rule Iran 2036 2037 - Mar 21 0:00 1:00 D  
Rule Iran 2036 2037 - Sep 21 0:00 0 S  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Tehran 3:25:44 - LMT 1916  
3:25:44 - TMT 1946 # Tehran Mean Time  
3:30 - IRST 1977 Nov  
4:00 Iran IR%sT 1979  
3:30 Iran IR%sT

# Iraq

```

#
# From Jonathan Lennox (2000-06-12):
# An article in this week's Economist ("Inside the Saddam-free zone", p. 50 in
# the U.S. edition) on the Iraqi Kurds contains a paragraph:
# "The three northern provinces ... switched their clocks this spring and
# are an hour ahead of Baghdad."
#
# But Rives McDow (2000-06-18) quotes a contact in Iraqi-Kurdistan as follows:
# In the past, some Kurdish nationalists, as a protest to the Iraqi
# Government, did not adhere to daylight saving time. They referred
# to daylight saving as Saddam time. But, as of today, the time zone
# in Iraqi-Kurdistan is on standard time with Baghdad, Iraq.
#
# So we'll ignore the Economist's claim.

# From Steffen Thorsen (2008-03-10):
# The cabinet in Iraq abolished DST last week, according to the following
# news sources (in Arabic):
# http://www.aljeeran.net/wesima\_articles/news-20080305-98602.html
#
# http://www.aswataliraq.info/look/article.tpl?id=2047&IdLanguage=17&IdPublication=4&NrArticle=71743&NrIssue=1&NrSection=10
#
# We have published a short article in English about the change:
# http://www.timeanddate.com/news/time/iraq-dumps-daylight-saving.html

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Iraq 1982 only - May 1 0:00 1:00 D
Rule Iraq 1982 1984 - Oct 1 0:00 0 S
Rule Iraq 1983 only - Mar 31 0:00 1:00 D
Rule Iraq 1984 1985 - Apr 1 0:00 1:00 D
Rule Iraq 1985 1990 - Sep lastSun 1:00s 0 S
Rule Iraq 1986 1990 - Mar lastSun 1:00s 1:00 D
# IATA SSIM (1991/1996) says Apr 1 12:01am UTC; guess the ':01' is a typo.
# Shanks & Pottenger say Iraq did not observe DST 1992/1997; ignore this.
#
Rule Iraq 1991 2007 - Apr 1 3:00s 1:00 D
Rule Iraq 1991 2007 - Oct 1 3:00s 0 S
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Baghdad 2:57:40 - LMT 1890
2:57:36 - BMT 1918 # Baghdad Mean Time?
3:00 - AST 1982 May
3:00 Iraq A%sT

#####

# Israel

```

# From Ephraim Silverberg (2001-01-11):  
#  
# I coined "IST/IDT" circa 1988. Until then there were three  
# different abbreviations in use:  
#  
# JST Jerusalem Standard Time [Danny Braniss, Hebrew University]  
# IZT Israel Zonal (sic) Time [Prof. Haim Papo, Technion]  
# EEST Eastern Europe Standard Time [used by almost everyone else]  
#  
# Since timezones should be called by country and not capital cities,  
# I ruled out JST. As Israel is in Asia Minor and not Eastern Europe,  
# EEST was equally unacceptable. Since "zonal" was not compatible with  
# any other timezone abbreviation, I felt that 'IST' was the way to go  
# and, indeed, it has received almost universal acceptance in timezone  
# settings in Israeli computers.  
#  
# In any case, I am happy to share timezone abbreviations with India,  
# high on my favorite-country list (and not only because my wife's  
# family is from India).

# From Shanks & Pottenger:  
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Zion 1940 only - Jun 1 0:00 1:00 D  
Rule Zion 1942 1944 - Nov 1 0:00 0 S  
Rule Zion 1943 only - Apr 1 2:00 1:00 D  
Rule Zion 1944 only - Apr 1 0:00 1:00 D  
Rule Zion 1945 only - Apr 16 0:00 1:00 D  
Rule Zion 1945 only - Nov 1 2:00 0 S  
Rule Zion 1946 only - Apr 16 2:00 1:00 D  
Rule Zion 1946 only - Nov 1 0:00 0 S  
Rule Zion 1948 only - May 23 0:00 2:00 DD  
Rule Zion 1948 only - Sep 1 0:00 1:00 D  
Rule Zion 1948 1949 - Nov 1 2:00 0 S  
Rule Zion 1949 only - May 1 0:00 1:00 D  
Rule Zion 1950 only - Apr 16 0:00 1:00 D  
Rule Zion 1950 only - Sep 15 3:00 0 S  
Rule Zion 1951 only - Apr 1 0:00 1:00 D  
Rule Zion 1951 only - Nov 11 3:00 0 S  
Rule Zion 1952 only - Apr 20 2:00 1:00 D  
Rule Zion 1952 only - Oct 19 3:00 0 S  
Rule Zion 1953 only - Apr 12 2:00 1:00 D  
Rule Zion 1953 only - Sep 13 3:00 0 S  
Rule Zion 1954 only - Jun 13 0:00 1:00 D  
Rule Zion 1954 only - Sep 12 0:00 0 S  
Rule Zion 1955 only - Jun 11 2:00 1:00 D  
Rule Zion 1955 only - Sep 11 0:00 0 S  
Rule Zion 1956 only - Jun 3 0:00 1:00 D



Rule Zion 1956 only - Sep 30 3:00 0 S  
Rule Zion 1957 only - Apr 29 2:00 1:00 D  
Rule Zion 1957 only - Sep 22 0:00 0 S  
Rule Zion 1974 only - Jul 7 0:00 1:00 D  
Rule Zion 1974 only - Oct 13 0:00 0 S  
Rule Zion 1975 only - Apr 20 0:00 1:00 D  
Rule Zion 1975 only - Aug 31 0:00 0 S  
Rule Zion 1985 only - Apr 14 0:00 1:00 D  
Rule Zion 1985 only - Sep 15 0:00 0 S  
Rule Zion 1986 only - May 18 0:00 1:00 D  
Rule Zion 1986 only - Sep 7 0:00 0 S  
Rule Zion 1987 only - Apr 15 0:00 1:00 D  
Rule Zion 1987 only - Sep 13 0:00 0 S

# From Avigdor Finkelstein (2014-03-05):

# I check the Parliament (Knesset) records and there it's stated that the  
# [1988] transition should take place on Saturday night, when the Sabbath  
# ends and changes to Sunday.

Rule Zion 1988 only - Apr 10 0:00 1:00 D

Rule Zion 1988 only - Sep 4 0:00 0 S

# From Ephraim Silverberg

# (1997-03-04, 1998-03-16, 1998-12-28, 2000-01-17, 2000-07-25, 2004-12-22,  
# and 2005-02-17):

# According to the Office of the Secretary General of the Ministry of  
# Interior, there is NO set rule for Daylight-Savings/Standard time changes.  
# One thing is entrenched in law, however: that there must be at least 150  
# days of daylight savings time annually. From 1993-1998, the change to  
# daylight savings time was on a Friday morning from midnight IST to  
# 1 a.m. IDT; up until 1998, the change back to standard time was on a  
# Saturday night from midnight daylight savings time to 11 p.m. standard  
# time. 1996 is an exception to this rule where the change back to standard  
# time took place on Sunday night instead of Saturday night to avoid  
# conflicts with the Jewish New Year. In 1999, the change to  
# daylight savings time was still on a Friday morning but from  
# 2 a.m. IST to 3 a.m. IDT; furthermore, the change back to standard time  
# was also on a Friday morning from 2 a.m. IDT to 1 a.m. IST for  
# 1999 only. In the year 2000, the change to daylight savings time was  
# similar to 1999, but although the change back will be on a Friday, it  
# will take place from 1 a.m. IDT to midnight IST. Starting in 2001, all  
# changes to/from will take place at 1 a.m. old time, but now there is no  
# rule as to what day of the week it will take place in as the start date  
# (except in 2003) is the night after the Passover Seder (i.e. the eve  
# of the 16th of Nisan in the lunar Hebrew calendar) and the end date  
# (except in 2002) is three nights before Yom Kippur [Day of Atonement]  
# (the eve of the 7th of Tishrei in the lunar Hebrew calendar).

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 1989 only - Apr 30 0:00 1:00 D

Rule Zion 1989 only - Sep 3 0:00 0 S

Rule Zion 1990 only - Mar 25 0:00 1:00 D

Rule Zion 1990 only - Aug 26 0:00 0 S

Rule Zion 1991 only - Mar 24 0:00 1:00 D

Rule Zion 1991 only - Sep 1 0:00 0 S

Rule Zion 1992 only - Mar 29 0:00 1:00 D

Rule Zion 1992 only - Sep 6 0:00 0 S

Rule Zion 1993 only - Apr 2 0:00 1:00 D

Rule Zion 1993 only - Sep 5 0:00 0 S

# The dates for 1994-1995 were obtained from Office of the Spokeswoman for the  
# Ministry of Interior, Jerusalem, Israel. The spokeswoman can be reached by  
# calling the office directly at 972-2-6701447 or 972-2-6701448.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 1994 only - Apr 1 0:00 1:00 D

Rule Zion 1994 only - Aug 28 0:00 0 S

Rule Zion 1995 only - Mar 31 0:00 1:00 D

Rule Zion 1995 only - Sep 3 0:00 0 S

# The dates for 1996 were determined by the Minister of Interior of the  
# time, Haim Ramon. The official announcement regarding 1996-1998  
# (with the dates for 1997-1998 no longer being relevant) can be viewed at:  
#

# <ftp://ftp.cs.huji.ac.il/pub/tz/announcements/1996-1998.ramon.ps.gz>

#

# The dates for 1997-1998 were altered by his successor, Rabbi Eli Suissa.

#

# The official announcements for the years 1997-1999 can be viewed at:

#

# <ftp://ftp.cs.huji.ac.il/pub/tz/announcements/YYYY.ps.gz>

#

# where YYYY is the relevant year.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 1996 only - Mar 15 0:00 1:00 D

Rule Zion 1996 only - Sep 16 0:00 0 S

Rule Zion 1997 only - Mar 21 0:00 1:00 D

Rule Zion 1997 only - Sep 14 0:00 0 S

Rule Zion 1998 only - Mar 20 0:00 1:00 D

Rule Zion 1998 only - Sep 6 0:00 0 S

Rule Zion 1999 only - Apr 2 2:00 1:00 D

Rule Zion 1999 only - Sep 3 2:00 0 S

# The Knesset Interior Committee has changed the dates for 2000 for  
# the third time in just over a year and have set new dates for the

# years 2001-2004 as well.  
#  
# The official announcement for the start date of 2000 can be viewed at:  
#  
# <ftp://ftp.cs.huji.ac.il/pub/tz/announcements/2000-start.ps.gz>  
#  
# The official announcement for the end date of 2000 and the dates  
# for the years 2001-2004 can be viewed at:  
#  
# <ftp://ftp.cs.huji.ac.il/pub/tz/announcements/2000-2004.ps.gz>

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 2000 only - Apr 14 2:00 1:00 D

Rule Zion 2000 only - Oct 6 1:00 0 S

Rule Zion 2001 only - Apr 9 1:00 1:00 D

Rule Zion 2001 only - Sep 24 1:00 0 S

Rule Zion 2002 only - Mar 29 1:00 1:00 D

Rule Zion 2002 only - Oct 7 1:00 0 S

Rule Zion 2003 only - Mar 28 1:00 1:00 D

Rule Zion 2003 only - Oct 3 1:00 0 S

Rule Zion 2004 only - Apr 7 1:00 1:00 D

Rule Zion 2004 only - Sep 22 1:00 0 S

# The proposed law agreed upon by the Knesset Interior Committee on  
# 2005-02-14 is that, for 2005 and beyond, DST starts at 02:00 the  
# last Friday before April 2nd (i.e. the last Friday in March or April  
# 1st itself if it falls on a Friday) and ends at 02:00 on the Saturday  
# night \_before\_ the fast of Yom Kippur.

#  
# Those who can read Hebrew can view the announcement at:  
#  
# <ftp://ftp.cs.huji.ac.il/pub/tz/announcements/2005+beyond.ps>

# From Paul Eggert (2012-10-26):

# I used Ephraim Silverberg's `dst-israel.el` program  
# <ftp://ftp.cs.huji.ac.il/pub/tz/software/dst-israel.el> (2005-02-20)  
# along with Ed Reingold's `cal-hebrew` in GNU Emacs 21.4,  
# to generate the transitions from 2005 through 2012.  
# (I replaced "lastFri" with "Fri>=26" by hand.)

# The spring transitions all correspond to the following Rule:

#  
# Rule Zion 2005 2012 - Mar Fri>=26 2:00 1:00 D

#  
# but older `zic` implementations (e.g., Solaris 8) do not support  
# "Fri>=26" to mean April 1 in years like 2005, so for now we list the  
# springtime transitions explicitly.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 2005 only - Apr 1 2:00 1:00 D  
Rule Zion 2005 only - Oct 9 2:00 0 S  
Rule Zion 2006 2010 - Mar Fri>=26 2:00 1:00 D  
Rule Zion 2006 only - Oct 1 2:00 0 S  
Rule Zion 2007 only - Sep 16 2:00 0 S  
Rule Zion 2008 only - Oct 5 2:00 0 S  
Rule Zion 2009 only - Sep 27 2:00 0 S  
Rule Zion 2010 only - Sep 12 2:00 0 S  
Rule Zion 2011 only - Apr 1 2:00 1:00 D  
Rule Zion 2011 only - Oct 2 2:00 0 S  
Rule Zion 2012 only - Mar Fri>=26 2:00 1:00 D  
Rule Zion 2012 only - Sep 23 2:00 0 S

# From Ephraim Silverberg (2013-06-27):

# On June 23, 2013, the Israeli government approved changes to the  
# Time Decree Law. The next day, the changes passed the First Reading  
# in the Knesset. The law is expected to pass the Second and Third  
# (final) Readings by the beginning of September 2013.

#

# As of 2013, DST starts at 02:00 on the Friday before the last Sunday  
# in March. DST ends at 02:00 on the last Sunday of October.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Zion 2013 max - Mar Fri>=23 2:00 1:00 D

Rule Zion 2013 max - Oct lastSun 2:00 0 S

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Jerusalem 2:20:54 - LMT 1880

2:20:40 - JMT 1918 # Jerusalem Mean Time?

2:00 Zion I%ST

#####

# Japan

# '9:00' and 'JST' is from Guy Harris.

# From Paul Eggert (1995-03-06):

# Today's \_Asahi Evening News\_ (page 4) reports that Japan had  
# daylight saving between 1948 and 1951, but "the system was discontinued  
# because the public believed it would lead to longer working hours."

# From Mayumi Negishi in the 2005-08-10 Japan Times:

# <http://www.japantimes.co.jp/cgi-bin/getarticle.pl5?nn20050810f2.htm>

# Occupation authorities imposed daylight-saving time on Japan on

# [1948-05-01].... But lack of prior debate and the execution of

# daylight-saving time just three days after the bill was passed generated  
# deep hatred of the concept.... The Diet unceremoniously passed a bill to  
# dump the unpopular system in October 1951, less than a month after the San  
# Francisco Peace Treaty was signed. (A government poll in 1951 showed 53%  
# of the Japanese wanted to scrap daylight-saving time, as opposed to 30% who  
# wanted to keep it.)

# From Paul Eggert (2006-03-22):

# Shanks & Pottenger write that DST in Japan during those years was as follows:

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Japan 1948 only - May Sun>=1 2:00 1:00 D

Rule Japan 1948 1951 - Sep Sat>=8 2:00 0 S

Rule Japan 1949 only - Apr Sun>=1 2:00 1:00 D

Rule Japan 1950 1951 - May Sun>=1 2:00 1:00 D

# but the only locations using it (for birth certificates, presumably, since  
# their audience is astrologers) were US military bases. For now, assume  
# that for most purposes daylight-saving time was observed; otherwise, what  
# would have been the point of the 1951 poll?

# From Hideyuki Suzuki (1998-11-09):

# 'Tokyo' usually stands for the former location of Tokyo Astronomical

# Observatory: 139 degrees 44' 40.90" E (9h 18m 58.727s),

# 35 degrees 39' 16.0" N.

# This data is from 'Rika Nenpyou (Chronological Scientific Tables) 1996'

# edited by National Astronomical Observatory of Japan....

# JST (Japan Standard Time) has been used since 1888-01-01 00:00 (JST).

# The law is enacted on 1886-07-07.

# From Hideyuki Suzuki (1998-11-16):

# The ordinance No. 51 (1886) established "standard time" in Japan,

# which stands for the time on 135 degrees E.

# In the ordinance No. 167 (1895), "standard time" was renamed to "central

# standard time". And the same ordinance also established "western standard

# time", which stands for the time on 120 degrees E.... But "western standard

# time" was abolished in the ordinance No. 529 (1937). In the ordinance No.

# 167, there is no mention regarding for what place western standard time is

# standard....

#

# I wrote "ordinance" above, but I don't know how to translate.

# In Japanese it's "chokurei", which means ordinance from emperor.

# From Yu-Cheng Chuang (2013-07-12):

# ...the Meiji Emperor announced Ordinance No. 167 of Meiji Year 28 "The clause

# about standard time" ... The adoption began from Jan 1, 1896.

# [http://ja.wikisource.org/wiki/\\_\(\)](http://ja.wikisource.org/wiki/_())

#

# ...the Showa Emperor announced Ordinance No. 529 of Showa Year 12 ... which

# means the whole Japan territory, including later occupations, adopt Japan

# Central Time (UTC+9). The adoption began on Oct 1, 1937.

# <http://ja.wikisource.org/wiki/>

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Tokyo 9:18:59 - LMT 1887 Dec 31 15:00u

9:00 - JST 1896 Jan 1

9:00 - JCST 1937 Oct 1

9:00 Japan J%ST

# Since 1938, all Japanese possessions have been like Asia/Tokyo.

# Jordan

#

# From <<http://star.arabia.com/990701/JO9.html>>

# Jordan Week (1999-07-01) via Steffen Thorsen (1999-09-09):

# Clocks in Jordan were forwarded one hour on Wednesday at midnight,

# in accordance with the government's decision to implement summer time

# all year round.

#

# From <<http://star.arabia.com/990930/JO9.html>>

# Jordan Week (1999-09-30) via Steffen Thorsen (1999-11-09):

# Winter time starts today Thursday, 30 September. Clocks will be turned back

# by one hour. This is the latest government decision and it's final!

# The decision was taken because of the increase in working hours in

# government's departments from six to seven hours.

#

# From Paul Eggert (2005-11-22):

# Starting 2003 transitions are from Steffen Thorsen's web site [timeanddate.com](http://timeanddate.com).

#

# From Steffen Thorsen (2005-11-23):

# For Jordan I have received multiple independent user reports every year

# about DST end dates, as the end-rule is different every year.

#

# From Steffen Thorsen (2006-10-01), after a heads-up from Hilal Malawi:

# <http://www.petranews.gov.jo/nepras/2006/Sep/05/4000.htm>

# "Jordan will switch to winter time on Friday, October 27".

#

# From Steffen Thorsen (2009-04-02):

# This single one might be good enough, (2009-03-24, Arabic):

# <http://petra.gov.jo/Artical.aspx?Lng=2&Section=8&Artical=95279>

#

# Google's translation:

#

# > The Council of Ministers decided in 2002 to adopt the principle of timely

# > submission of the summer at 60 minutes as of midnight on the last Thursday

# > of the month of March of each year.

#

# So - this means the midnight between Thursday and Friday since 2002.

# From Arthur David Olson (2009-04-06):  
# We still have Jordan switching to DST on Thursdays in 2000 and 2001.

# From Steffen Thorsen (2012-10-25):  
# Yesterday the government in Jordan announced that they will not  
# switch back to standard time this winter, so they will stay on DST  
# until about the same time next year (at least).  
# [http://www.petra.gov.jo/Public\\_News/Nws\\_NewsDetails.aspx?NewsID=88950](http://www.petra.gov.jo/Public_News/Nws_NewsDetails.aspx?NewsID=88950)

# From Steffen Thorsen (2013-12-11):  
# Jordan Times and other sources say that Jordan is going back to  
# UTC+2 on 2013-12-19 at midnight:  
# <http://jordantimes.com/govt-decides-to-switch-back-to-wintertime>  
# Official, in Arabic:  
#  
[http://www.petra.gov.jo/public\\_news/Nws\\_NewsDetails.aspx?Menu\\_ID=&Site\\_Id=2&lang=1&NewsID=133230&CatID=14](http://www.petra.gov.jo/public_news/Nws_NewsDetails.aspx?Menu_ID=&Site_Id=2&lang=1&NewsID=133230&CatID=14)  
# ... Our background/permalink about it  
# <http://www.timeanddate.com/news/time/jordan-reverses-dst-decision.html>  
# ...  
# [http://www.petra.gov.jo/Public\\_News/Nws\\_NewsDetails.aspx?lang=2&site\\_id=1&NewsID=133313&Type=P](http://www.petra.gov.jo/Public_News/Nws_NewsDetails.aspx?lang=2&site_id=1&NewsID=133313&Type=P)  
# ... says midnight for the coming one and 1:00 for the ones in the future  
# (and they will use DST again next year, using the normal schedule).

# From Paul Eggert (2013-12-11):  
# As Steffen suggested, consider the past 21-month experiment to be DST.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Jordan 1973 only - Jun 6 0:00 1:00 S  
Rule Jordan 1973 1975 - Oct 1 0:00 0 -  
Rule Jordan 1974 1977 - May 1 0:00 1:00 S  
Rule Jordan 1976 only - Nov 1 0:00 0 -  
Rule Jordan 1977 only - Oct 1 0:00 0 -  
Rule Jordan 1978 only - Apr 30 0:00 1:00 S  
Rule Jordan 1978 only - Sep 30 0:00 0 -  
Rule Jordan 1985 only - Apr 1 0:00 1:00 S  
Rule Jordan 1985 only - Oct 1 0:00 0 -  
Rule Jordan 1986 1988 - Apr Fri>=1 0:00 1:00 S  
Rule Jordan 1986 1990 - Oct Fri>=1 0:00 0 -  
Rule Jordan 1989 only - May 8 0:00 1:00 S  
Rule Jordan 1990 only - Apr 27 0:00 1:00 S  
Rule Jordan 1991 only - Apr 17 0:00 1:00 S  
Rule Jordan 1991 only - Sep 27 0:00 0 -  
Rule Jordan 1992 only - Apr 10 0:00 1:00 S  
Rule Jordan 1992 1993 - Oct Fri>=1 0:00 0 -  
Rule Jordan 1993 1998 - Apr Fri>=1 0:00 1:00 S  
Rule Jordan 1994 only - Sep Fri>=15 0:00 0 -

Rule Jordan 1995 1998 - Sep Fri>=15 0:00s 0 -  
Rule Jordan 1999 only - Jul 1 0:00s 1:00 S  
Rule Jordan 1999 2002 - Sep lastFri 0:00s 0 -  
Rule Jordan 2000 2001 - Mar lastThu 0:00s 1:00 S  
Rule Jordan 2002 2012 - Mar lastThu 24:00 1:00 S  
Rule Jordan 2003 only - Oct 24 0:00s 0 -  
Rule Jordan 2004 only - Oct 15 0:00s 0 -  
Rule Jordan 2005 only - Sep lastFri 0:00s 0 -  
Rule Jordan 2006 2011 - Oct lastFri 0:00s 0 -  
Rule Jordan 2013 only - Dec 20 0:00 0 -  
Rule Jordan 2014 max - Mar lastThu 24:00 1:00 S  
Rule Jordan 2014 max - Oct lastFri 0:00s 0 -  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Amman 2:23:44 - LMT 1931  
2:00 Jordan EE%sT

# Kazakhstan

# From Paul Eggert (1996-11-22):  
# Andrew Evtichov (1996-04-13) writes that Kazakhstan  
# stayed in sync with Moscow after 1990, and that Aqtobe (formerly Aktyubinsk)  
# and Aqtau (formerly Shevchenko) are the largest cities in their zones.  
# Guess that Aqtau and Aqtobe diverged in 1995, since that's the first time  
# IATA SSIM mentions a third time zone in Kazakhstan.

# From Paul Eggert (2006-03-22):  
# German Iofis, ELSI, Almaty (2001-10-09) reports that Kazakhstan uses  
# RussiaAsia rules, instead of switching at 00:00 as the IATA has it.  
# Go with Shanks & Pottenger, who have them always using RussiaAsia rules.  
# Also go with the following claims of Shanks & Pottenger:  
#  
# - Kazakhstan did not observe DST in 1991.  
# - Qyzylorda switched from +5:00 to +6:00 on 1992-01-19 02:00.  
# - Oral switched from +5:00 to +4:00 in spring 1989.

# From Kazakhstan Embassy's News Bulletin No. 11  
# <<http://www.kazsociety.org.uk/news/2005/03/30.htm>> (2005-03-21):  
# The Government of Kazakhstan passed a resolution March 15 abolishing  
# daylight saving time citing lack of economic benefits and health  
# complications coupled with a decrease in productivity.

#  
# From Branislav Kojic (in Astana) via Gwillim Law (2005-06-28):  
# ... what happened was that the former Kazakhstan Eastern time zone  
# was "blended" with the Central zone. Therefore, Kazakhstan now has  
# two time zones, and difference between them is one hour. The zone  
# closer to UTC is the former Western zone (probably still called the  
# same), encompassing four provinces in the west: Aqtobe, Atyrau,



# Mangghystau, and West Kazakhstan. The other zone encompasses  
# everything else.... I guess that would make Kazakhstan time zones  
# de jure UTC+5 and UTC+6 respectively.

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

#

# Almaty (formerly Alma-Ata), representing most locations in Kazakhstan

Zone Asia/Almaty 5:07:48 - LMT 1924 May 2 # or Alma-Ata

5:00 - ALMT 1930 Jun 21 # Alma-Ata Time

6:00 RussiaAsia ALM%ST 1991

6:00 - ALMT 1992

6:00 RussiaAsia ALM%ST 2005 Mar 15

6:00 - ALMT

# Qyzylorda (aka Kyzylorda, Kizilorda, Kzyl-Orda, etc.)

Zone Asia/Qyzylorda 4:21:52 - LMT 1924 May 2

4:00 - KIZT 1930 Jun 21 # Kizilorda Time

5:00 - KIZT 1981 Apr 1

5:00 1:00 KIZST 1981 Oct 1

6:00 - KIZT 1982 Apr 1

5:00 RussiaAsia KIZ%ST 1991

5:00 - KIZT 1991 Dec 16 # independence

5:00 - QYZT 1992 Jan 19 2:00

6:00 RussiaAsia QYZ%ST 2005 Mar 15

6:00 - QYZT

# Aqtobe (aka Aktobe, formerly Aktyubinsk)

Zone Asia/Aqtobe 3:48:40 - LMT 1924 May 2

4:00 - AKTT 1930 Jun 21 # Aktyubinsk Time

5:00 - AKTT 1981 Apr 1

5:00 1:00 AKTST 1981 Oct 1

6:00 - AKTT 1982 Apr 1

5:00 RussiaAsia AKT%ST 1991

5:00 - AKTT 1991 Dec 16 # independence

5:00 RussiaAsia AQT%ST 2005 Mar 15 # Aqtobe Time

5:00 - AQTT

# Mangghystau

# Aqtau was not founded until 1963, but it represents an inhabited region,

# so include time stamps before 1963.

Zone Asia/Aqtau 3:21:04 - LMT 1924 May 2

4:00 - FORT 1930 Jun 21 # Fort Shevchenko T

5:00 - FORT 1963

5:00 - SHET 1981 Oct 1 # Shevchenko Time

6:00 - SHET 1982 Apr 1

5:00 RussiaAsia SHE%ST 1991

5:00 - SHET 1991 Dec 16 # independence

5:00 RussiaAsia AQT%ST 1995 Mar lastSun 2:00 # Aqtau Time

4:00 RussiaAsia AQT%ST 2005 Mar 15

5:00 - AQTT

# West Kazakhstan  
Zone Asia/Oral 3:25:24 - LMT 1924 May 2 # or Ural'sk  
4:00 - URAT 1930 Jun 21 # Ural'sk time  
5:00 - URAT 1981 Apr 1  
5:00 1:00 URAST 1981 Oct 1  
6:00 - URAT 1982 Apr 1  
5:00 RussiaAsia URA%ST 1989 Mar 26 2:00  
4:00 RussiaAsia URA%ST 1991  
4:00 - URAT 1991 Dec 16 # independence  
4:00 RussiaAsia ORA%ST 2005 Mar 15 # Oral Time  
5:00 - ORAT

# Kyrgyzstan (Kirgizstan)  
# Transitions through 1991 are from Shanks & Pottenger.

# From Paul Eggert (2005-08-15):  
# According to an article dated today in the Kyrgyzstan Development Gateway  
# [http://eng.gateway.kg/cgi-bin/page.pl?id=1&story\\_name=doc9979.shtml](http://eng.gateway.kg/cgi-bin/page.pl?id=1&story_name=doc9979.shtml)  
# Kyrgyzstan is canceling the daylight saving time system. I take the article  
# to mean that they will leave their clocks at 6 hours ahead of UTC.  
# From Malik Abdugaliyev (2005-09-21):  
# Our government cancels daylight saving time 6th of August 2005.  
# From 2005-08-12 our GMT-offset is +6, w/o any daylight saving.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Kyrgyz 1992 1996 - Apr Sun>=7 0:00s 1:00 S  
Rule Kyrgyz 1992 1996 - Sep lastSun 0:00 0 -  
Rule Kyrgyz 1997 2005 - Mar lastSun 2:30 1:00 S  
Rule Kyrgyz 1997 2004 - Oct lastSun 2:30 0 -  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Bishkek 4:58:24 - LMT 1924 May 2  
5:00 - FRUT 1930 Jun 21 # Frunze Time  
6:00 RussiaAsia FRU%ST 1991 Mar 31 2:00s  
5:00 1:00 FRUST 1991 Aug 31 2:00 # independence  
5:00 Kyrgyz KG%ST 2005 Aug 12 # Kyrgyzstan Time  
6:00 - KGT

#####

# Korea (North and South)

# From Annie I. Bang (2006-07-10):  
# <http://www.koreaherald.com/view.php?ud=200607100012>  
# Korea ran a daylight saving program from 1949-61 but stopped it  
# during the 1950-53 Korean War. The system was temporarily enforced  
# between 1987 and 1988 ...

# From Sanghyuk Jung (2014-10-29):

# <http://mm.icann.org/pipermail/tz/2014-October/021830.html>  
# According to the Korean Wikipedia  
# [http://ko.wikipedia.org/wiki/\\_](http://ko.wikipedia.org/wiki/_)  
# [oldid=12896437 2014-09-04 08:03 UTC]  
# DST in Republic of Korea was as follows.... And I checked old  
# newspapers in Korean, all articles correspond with data in Wikipedia.  
# For example, the article in 1948 (Korean Language) proved that DST  
# started at June 1 in that year. For another example, the article in  
# 1988 said that DST started at 2:00 AM in that year.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule ROK 1948 only - Jun 1 0:00 1:00 D

Rule ROK 1948 only - Sep 13 0:00 0 S

Rule ROK 1949 only - Apr 3 0:00 1:00 D

Rule ROK 1949 1951 - Sep Sun>=8 0:00 0 S

Rule ROK 1950 only - Apr 1 0:00 1:00 D

Rule ROK 1951 only - May 6 0:00 1:00 D

Rule ROK 1955 only - May 5 0:00 1:00 D

Rule ROK 1955 only - Sep 9 0:00 0 S

Rule ROK 1956 only - May 20 0:00 1:00 D

Rule ROK 1956 only - Sep 30 0:00 0 S

Rule ROK 1957 1960 - May Sun>=1 0:00 1:00 D

Rule ROK 1957 1960 - Sep Sun>=18 0:00 0 S

Rule ROK 1987 1988 - May Sun>=8 2:00 1:00 D

Rule ROK 1987 1988 - Oct Sun>=8 3:00 0 S

# From Paul Eggert (2014-10-30):

# The Korean Wikipedia entry gives the following sources for UT offsets:

#

# 1908: Official Journal Article No. 3994 (Edict No. 5)

# 1912: Governor-General of Korea Official Gazette Issue No. 367

# (Announcement No. 338)

# 1954: Presidential Decree No. 876 (1954-03-17)

# 1961: Law No. 676 (1961-08-07)

# 1987: Law No. 3919 (1986-12-31)

#

# The Wikipedia entry also has confusing information about a change

# to UT+9 in April 1910, but then what would be the point of the later change

# to UT+9 on 1912-01-01? Omit the 1910 change for now.

#

# I guessed that time zone abbreviations through 1945 followed the same

# rules as discussed under Taiwan, with nominal switches from JST to KST

# when the respective cities were taken over by the Allies after WWII.

#

# For Pyongyang we have no information; guess no changes since World War II.

# From Steffen Thorsen (2015-08-07):

# According to many news sources, North Korea is going to change to

# the 8:30 time zone on August 15, one example:  
# <http://www.bbc.com/news/world-asia-33815049>  
#  
# From Paul Eggert (2015-08-15):  
# Bells rang out midnight (00:00) Friday as part of the celebrations. See:  
# Talmadge E. North Korea celebrates new time zone, 'Pyongyang Time'  
# <http://news.yahoo.com/north-korea-celebrates-time-zone-pyongyang-time-164038128.html>  
# There is no common English-language abbreviation for this time zone.  
# Use KST, as that's what we already use for 1954-1961 in ROK.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Seoul 8:27:52 - LMT 1908 Apr 1

8:30 - KST 1912 Jan 1  
9:00 - JCST 1937 Oct 1  
9:00 - JST 1945 Sep 8  
9:00 - KST 1954 Mar 21  
8:30 ROK K%sT 1961 Aug 10  
9:00 ROK K%sT

Zone Asia/Pyongyang 8:23:00 - LMT 1908 Apr 1

8:30 - KST 1912 Jan 1  
9:00 - JCST 1937 Oct 1  
9:00 - JST 1945 Aug 24  
9:00 - KST 2015 Aug 15 00:00  
8:30 - KST

#####

# Kuwait  
# See Asia/Riyadh.

# Laos  
# See Asia/Bangkok.

# Lebanon  
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Lebanon 1920 only - Mar 28 0:00 1:00 S  
Rule Lebanon 1920 only - Oct 25 0:00 0 -  
Rule Lebanon 1921 only - Apr 3 0:00 1:00 S  
Rule Lebanon 1921 only - Oct 3 0:00 0 -  
Rule Lebanon 1922 only - Mar 26 0:00 1:00 S  
Rule Lebanon 1922 only - Oct 8 0:00 0 -  
Rule Lebanon 1923 only - Apr 22 0:00 1:00 S  
Rule Lebanon 1923 only - Sep 16 0:00 0 -  
Rule Lebanon 1957 1961 - May 1 0:00 1:00 S  
Rule Lebanon 1957 1961 - Oct 1 0:00 0 -  
Rule Lebanon 1972 only - Jun 22 0:00 1:00 S  
Rule Lebanon 1972 1977 - Oct 1 0:00 0 -

Rule Lebanon 1973 1977 - May 1 0:00 1:00 S  
 Rule Lebanon 1978 only - Apr 30 0:00 1:00 S  
 Rule Lebanon 1978 only - Sep 30 0:00 0 -  
 Rule Lebanon 1984 1987 - May 1 0:00 1:00 S  
 Rule Lebanon 1984 1991 - Oct 16 0:00 0 -  
 Rule Lebanon 1988 only - Jun 1 0:00 1:00 S  
 Rule Lebanon 1989 only - May 10 0:00 1:00 S  
 Rule Lebanon 1990 1992 - May 1 0:00 1:00 S  
 Rule Lebanon 1992 only - Oct 4 0:00 0 -  
 Rule Lebanon 1993 max - Mar lastSun 0:00 1:00 S  
 Rule Lebanon 1993 1998 - Sep lastSun 0:00 0 -  
 Rule Lebanon 1999 max - Oct lastSun 0:00 0 -  
 # Zone NAME GMTOFF RULES FORMAT [UNTIL]  
 Zone Asia/Beirut 2:22:00 - LMT 1880  
 2:00 Lebanon EE%sT

# Malaysia  
 # Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
 Rule NBorneo 1935 1941 - Sep 14 0:00 0:20 TS # one-Third Summer  
 Rule NBorneo 1935 1941 - Dec 14 0:00 0 -  
 #  
 # peninsular Malaysia  
 # taken from Mok Ly Yng (2003-10-30)  
 # <http://www.math.nus.edu.sg/aslaksen/teaching/timezone.html>  
 # Zone NAME GMTOFF RULES FORMAT [UNTIL]  
 Zone Asia/Kuala\_Lumpur 6:46:46 - LMT 1901 Jan 1  
 6:55:25 - SMT 1905 Jun 1 # Singapore M.T.  
 7:00 - MALT 1933 Jan 1 # Malaya Time  
 7:00 0:20 MALST 1936 Jan 1  
 7:20 - MALT 1941 Sep 1  
 7:30 - MALT 1942 Feb 16  
 9:00 - JST 1945 Sep 12  
 7:30 - MALT 1982 Jan 1  
 8:00 - MYT # Malaysia Time

# Sabah & Sarawak  
 # From Paul Eggert (2014-08-12):  
 # The data entries here are mostly from Shanks & Pottenger, but the 1942, 1945  
 # and 1982 transition dates are from Mok Ly Yng.  
 # Zone NAME GMTOFF RULES FORMAT [UNTIL]  
 Zone Asia/Kuching 7:21:20 - LMT 1926 Mar  
 7:30 - BORT 1933 # Borneo Time  
 8:00 NBorneo BOR%sT 1942 Feb 16  
 9:00 - JST 1945 Sep 12  
 8:00 - BORT 1982 Jan 1  
 8:00 - MYT

# Maldives  
 # Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Indian/Maldives 4:54:00 - LMT 1880 # Male

4:54:00 - MMT 1960 # Male Mean Time

5:00 - MVT # Maldives Time

# Mongolia

# Shanks & Pottenger say that Mongolia has three time zones, but

# The USNO (1995-12-21) and the CIA map Standard Time Zones of the World

# (2005-03) both say that it has just one.

# From Oscar van Vlijmen (1999-12-11):

# General Information Mongolia

# <<http://www.mongoliatourism.gov.mn/general.htm>> (1999-09)

# "Time: Mongolia has two time zones. Three westernmost provinces of

# Bayan-Igii, Uvs, and Hovd are one hour earlier than the capital city, and

# the rest of the country follows the Ulaanbaatar time, which is UTC/GMT plus

# eight hours."

# From Rives McDow (1999-12-13):

# Mongolia discontinued the use of daylight savings time in 1999; 1998

# being the last year it was implemented. The dates of implementation I am

# unsure of, but most probably it was similar to Russia, except for the time

# of implementation may have been different....

# Some maps in the past have indicated that there was an additional time

# zone in the eastern part of Mongolia, including the provinces of Dornod,

# Skhbaatar, and possibly Khentii.

# From Paul Eggert (1999-12-15):

# Naming and spelling is tricky in Mongolia.

# We'll use Hovd (also spelled Chovd and Khovd) to represent the west zone;

# the capital of the Hovd province is sometimes called Hovd, sometimes Dund-Uv,

# and sometimes Jirgalanta (with variant spellings), but the name Hovd

# is good enough for our purposes.

# From Rives McDow (2001-05-13):

# In addition to Mongolia starting daylight savings as reported earlier

# (adopted DST on 2001-04-27 02:00 local time, ending 2001-09-28),

# there are three time zones.

#

# Provinces [at 7:00]: Bayan-Igii, Uvs, Khovd, Zavkhan, Govi-Altai

# Provinces [at 8:00]: Khvsgl, Bulgan, Arkhangai, Khentii, Tv,

# Bayankhongor, vrkhangai, Dundgovi, Dornogovi, mngovi

# Provinces [at 9:00]: Dornod, Skhbaatar

#

# [The province of Selenge is omitted from the above lists.]

# From Ganbold Ts., Ulaanbaatar (2004-04-17):

# Daylight saving occurs at 02:00 local time last Saturday of March.

# It will change back to normal at 02:00 local time last Saturday of  
# September.... As I remember this rule was changed in 2001.  
#  
# From Paul Eggert (2004-04-17):  
# For now, assume Rives McDow's informant got confused about Friday vs  
# Saturday, and that his 2001 dates should have 1 added to them.

# From Paul Eggert (2005-07-26):  
# We have wildly conflicting information about Mongolia's time zones.  
# Bill Bonnet (2005-05-19) reports that the US Embassy in Ulaanbaatar says  
# there is only one time zone and that DST is observed, citing Microsoft  
# Windows XP as the source. Risto Nyknen (2005-05-16) reports that  
# travelmongolia.org says there are two time zones (UTC+7, UTC+8) with no DST.  
# Oscar van Vlijmen (2005-05-20) reports that the Mongolian Embassy in  
# Washington, DC says there are two time zones, with DST observed.  
# He also found  
#  
[http://ubpost.mongolnews.mn/index.php?subaction=showcomments&id=1111634894&archive=&start\\_from=&ucat=1&](http://ubpost.mongolnews.mn/index.php?subaction=showcomments&id=1111634894&archive=&start_from=&ucat=1&)  
# which also says that there is DST, and which has a comment by "Toddus"  
# (2005-03-31 06:05 +0700) saying "Mongolia actually has 3.5 time zones.  
# The West (OLGII) is +7 GMT, most of the country is ULAT is +8 GMT  
# and some Eastern provinces are +9 GMT but Skhbaatar Aimag is SUHK +8.5 GMT.  
# The SUKH timezone is new this year, it is one of the few things the  
# parliament passed during the tumultuous winter session."  
# For now, let's ignore this information, until we have more confirmation.

# From Ganbold Ts. (2007-02-26):  
# Parliament of Mongolia has just changed the daylight-saving rule in February.  
# They decided not to adopt daylight-saving time....  
# <http://www.mongolnews.mn/index.php?module=unuudur&sec=view&id=15742>

# From Deborah Goldsmith (2008-03-30):  
# We received a bug report claiming that the tz database UTC offset for  
# Asia/Choibalsan (GMT+09:00) is incorrect, and that it should be GMT  
# +08:00 instead. Different sources appear to disagree with the tz  
# database on this, e.g.:  
#  
# <http://www.timeanddate.com/worldclock/city.html?n=1026>  
# [http://www.worldtimeserver.com/current\\_time\\_in\\_MN.aspx](http://www.worldtimeserver.com/current_time_in_MN.aspx)  
#  
# both say GMT+08:00.

# From Steffen Thorsen (2008-03-31):  
# eznis airways, which operates several domestic flights, has a flight  
# schedule here:  
# <http://www.eznis.com/Container.jsp?id=112>  
# (click the English flag for English)

#

# There it appears that flights between Choibalsan and Ulaanbaatar arrive  
# about 1:35 - 1:50 hours later in local clock time, no matter the  
# direction, while Ulaanbaatar-Khovd takes 2 hours in the Eastern  
# direction and 3:35 back, which indicates that Ulaanbaatar and Khovd are  
# in different time zones (like we know about), while Choibalsan and  
# Ulaanbaatar are in the same time zone (correction needed).

# From Arthur David Olson (2008-05-19):  
# Assume that Choibalsan is indeed offset by 8:00.  
# XXX--in the absence of better information, assume that transition  
# was at the start of 2008-03-31 (the day of Steffen Thorsen's report);  
# this is almost surely wrong.

# From Ganbold Tsagaankhuu (2015-03-10):  
# It seems like yesterday Mongolian Government meeting has concluded to use  
# daylight saving time in Mongolia.... Starting at 2:00AM of last Saturday of  
# March 2015, daylight saving time starts. And 00:00AM of last Saturday of  
# September daylight saving time ends. Source:  
# <http://zasag.mn/news/view/8969>

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S  
Rule Mongol 1983 1984 - Apr 1 0:00 1:00 S  
Rule Mongol 1983 only - Oct 1 0:00 0 -  
# Shanks & Pottenger and IATA SSIM say 1990s switches occurred at 00:00,  
# but McDow says the 2001 switches occurred at 02:00. Also, IATA SSIM  
# (1996-09) says 1996-10-25. Go with Shanks & Pottenger through 1998.  
#  
# Shanks & Pottenger say that the Sept. 1984 through Sept. 1990 switches  
# in Choibalsan (more precisely, in Dornod and Skhbaatar) took place  
# at 02:00 standard time, not at 00:00 local time as in the rest of  
# the country. That would be odd, and possibly is a result of their  
# correction of 02:00 (in the previous edition) not being done correctly  
# in the latest edition; so ignore it for now.

Rule Mongol 1985 1998 - Mar lastSun 0:00 1:00 S  
Rule Mongol 1984 1998 - Sep lastSun 0:00 0 -  
# IATA SSIM (1999-09) says Mongolia no longer observes DST.  
Rule Mongol 2001 only - Apr lastSat 2:00 1:00 S  
Rule Mongol 2001 2006 - Sep lastSat 2:00 0 -  
Rule Mongol 2002 2006 - Mar lastSat 2:00 1:00 S  
Rule Mongol 2015 max - Mar lastSat 2:00 1:00 S  
Rule Mongol 2015 max - Sep lastSat 0:00 0 -

# Zone NAME GMTTOFF RULES FORMAT [UNTIL]  
# Hovd, a.k.a. Chovd, Dund-Uus, Dzhargalant, Khovd, Jirgalanta  
Zone Asia/Hovd 6:06:36 - LMT 1905 Aug  
6:00 - HOVT 1978 # Hovd Time



7:00 Mongol HOV%ST  
# Ulaanbaatar, a.k.a. Ulan Bataar, Ulan Bator, Urga  
Zone Asia/Ulaanbaatar 7:07:32 - LMT 1905 Aug  
7:00 - ULAT 1978 # Ulaanbaatar Time  
8:00 Mongol ULA%ST  
# Choibalsan, a.k.a. Bajan Tmen, Bajan Tumen, Chojbalsan,  
# Choybalsan, Sanbejse, Tchoibalsan  
Zone Asia/Choibalsan 7:38:00 - LMT 1905 Aug  
7:00 - ULAT 1978  
8:00 - ULAT 1983 Apr  
9:00 Mongol CHO%ST 2008 Mar 31 # Choibalsan Time  
8:00 Mongol CHO%ST

# Nepal  
# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Kathmandu 5:41:16 - LMT 1920  
5:30 - IST 1986  
5:45 - NPT # Nepal Time

# Oman  
# See Asia/Dubai.

# Pakistan

# From Rives McDow (2002-03-13):  
# I have been advised that Pakistan has decided to adopt dst on a  
# TRIAL basis for one year, starting 00:01 local time on April 7, 2002  
# and ending at 00:01 local time October 6, 2002. This is what I was  
# told, but I believe that the actual time of change may be 00:00; the  
# 00:01 was to make it clear which day it was on.

# From Paul Eggert (2002-03-15):  
# Jesper Nrgaard found this URL:  
# [http://www.pak.gov.pk/public/news/app/app06\\_dec.htm](http://www.pak.gov.pk/public/news/app/app06_dec.htm)  
# (dated 2001-12-06) which says that the Cabinet adopted a scheme "to  
# advance the clocks by one hour on the night between the first  
# Saturday and Sunday of April and revert to the original position on  
# 15th October each year". This agrees with McDow's 04-07 at 00:00,  
# but disagrees about the October transition, and makes it sound like  
# it's not on a trial basis. Also, the "between the first Saturday  
# and Sunday of April" phrase, if taken literally, means that the  
# transition takes place at 00:00 on the first Sunday on or after 04-02.

# From Paul Eggert (2003-02-09):  
# DAWN <<http://www.dawn.com/2002/10/06/top13.htm>> reported on 2002-10-05  
# that 2002 DST ended that day at midnight. Go with McDow for now.

# From Steffen Thorsen (2003-03-14):

# According to <http://www.dawn.com/2003/03/07/top15.htm>  
# there will be no DST in Pakistan this year:  
#  
# ISLAMABAD, March 6: Information and Media Development Minister Sheikh  
# Rashid Ahmed on Thursday said the cabinet had reversed a previous  
# decision to advance clocks by one hour in summer and put them back by  
# one hour in winter with the aim of saving light hours and energy.  
#  
# The minister told a news conference that the experiment had rather  
# shown 8 per cent higher consumption of electricity.

# From Alex Krivenyshev (2008-05-15):  
#  
# Here is an article that Pakistan plan to introduce Daylight Saving Time  
# on June 1, 2008 for 3 months.  
#  
# "... The federal cabinet on Wednesday announced a new conservation plan to  
# help reduce load shedding by approving the closure of commercial centres at  
# 9pm and moving clocks forward by one hour for the next three months. ...."  
#  
# [http://www.worldtimezone.net/dst\\_news/dst\\_news\\_pakistan01.html](http://www.worldtimezone.net/dst_news/dst_news_pakistan01.html)  
# [http://www.dailytimes.com.pk/default.asp?page=2008%5C05%5C15%5Cstory\\_15-5-2008\\_pg1\\_4](http://www.dailytimes.com.pk/default.asp?page=2008%5C05%5C15%5Cstory_15-5-2008_pg1_4)

# From Arthur David Olson (2008-05-19):  
# XXX--midnight transitions is a guess; 2008 only is a guess.

# From Alexander Krivenyshev (2008-08-28):  
# Pakistan government has decided to keep the watches one-hour advanced  
# for another 2 months - plan to return to Standard Time on October 31  
# instead of August 31.  
#  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_pakistan02.html](http://www.worldtimezone.com/dst_news/dst_news_pakistan02.html)  
# <http://dailymailnews.com/200808/28/news/dmbrn03.html>

# From Alexander Krivenyshev (2009-04-08):  
# Based on previous media reports that "... proposed plan to  
# advance clocks by one hour from May 1 will cause disturbance  
# to the working schedules rather than bringing discipline in  
# official working."  
# [http://www.thenews.com.pk/daily\\_detail.asp?id=171280](http://www.thenews.com.pk/daily_detail.asp?id=171280)  
#  
# recent news that instead of May 2009 - Pakistan plan to  
# introduce DST from April 15, 2009  
#  
# FYI: Associated Press Of Pakistan  
# April 08, 2009  
# Cabinet okays proposal to advance clocks by one hour from April 15  
# [http://www.app.com.pk/en\\_/index.php?option=com\\_content&task=view&id=73043&Itemid=1](http://www.app.com.pk/en_/index.php?option=com_content&task=view&id=73043&Itemid=1)

# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_pakistan05.html](http://www.worldtimezone.com/dst_news/dst_news_pakistan05.html)  
#  
# ....  
# The Federal Cabinet on Wednesday approved the proposal to  
# advance clocks in the country by one hour from April 15 to  
# conserve energy"

# From Steffen Thorsen (2009-09-17):  
# "The News International," Pakistan reports that: "The Federal  
# Government has decided to restore the previous time by moving the  
# clocks backward by one hour from October 1. A formal announcement to  
# this effect will be made after the Prime Minister grants approval in  
# this regard."  
# <http://www.thenews.com.pk/updates.asp?id=87168>

# From Alexander Krivenyshev (2009-09-28):  
# According to Associated Press Of Pakistan, it is confirmed that  
# Pakistan clocks across the country would be turned back by an hour from  
# October 1, 2009.  
#  
# "Clocks to go back one hour from 1 Oct"  
# [http://www.app.com.pk/en\\_/index.php?option=com\\_content&task=view&id=86715&Itemid=2](http://www.app.com.pk/en_/index.php?option=com_content&task=view&id=86715&Itemid=2)  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_pakistan07.htm](http://www.worldtimezone.com/dst_news/dst_news_pakistan07.htm)  
#  
# From Steffen Thorsen (2009-09-29):  
# Now they seem to have changed their mind, November 1 is the new date:  
# [http://www.thenews.com.pk/top\\_story\\_detail.asp?Id=24742](http://www.thenews.com.pk/top_story_detail.asp?Id=24742)  
# "The country's clocks will be reversed by one hour on November 1.  
# Officials of Federal Ministry for Interior told this to Geo News on  
# Monday."  
#  
# And more importantly, it seems that these dates will be kept every year:  
# "It has now been decided that clocks will be wound forward by one hour  
# on April 15 and reversed by an hour on November 1 every year without  
# obtaining prior approval, the officials added."  
#  
# We have confirmed this year's end date with both with the Ministry of  
# Water and Power and the Pakistan Electric Power Company:  
# <http://www.timeanddate.com/news/time/pakistan-ends-dst09.html>

# From Christoph Ghre (2009-10-01):  
# [T]he German Consulate General in Karachi reported me today that Pakistan  
# will go back to standard time on 1st of November.

# From Steffen Thorsen (2010-03-26):  
# Steffen Thorsen wrote:  
# > On Thursday (2010-03-25) it was announced that DST would start in  
# > Pakistan on 2010-04-01.

```

# >
# > Then today, the president said that they might have to revert the
# > decision if it is not supported by the parliament. So at the time
# > being, it seems unclear if DST will be actually observed or not - but
# > April 1 could be a more likely date than April 15.
# Now, it seems that the decision to not observe DST is final:
#
# "Govt Withdraws Plan To Advance Clocks"
# http://www.apakistannews.com/govt-withdraws-plan-to-advance-clocks-172041
#
# "People laud PM's announcement to end DST"
# http://www.app.com.pk/en_/index.php?option=com_content&task=view&id=99374&Itemid=2

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Pakistan 2002 only - Apr Sun>=2 0:01 1:00 S
Rule Pakistan 2002 only - Oct Sun>=2 0:01 0 -
Rule Pakistan 2008 only - Jun 1 0:00 1:00 S
Rule Pakistan 2008 2009 - Nov 1 0:00 0 -
Rule Pakistan 2009 only - Apr 15 0:00 1:00 S

# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
Zone Asia/Karachi 4:28:12 - LMT 1907
    5:30 - IST 1942 Sep
    5:30 1:00 IST 1945 Oct 15
    5:30 - IST 1951 Sep 30
    5:00 - KART 1971 Mar 26 # Karachi Time
    5:00 Pakistan PK%sT # Pakistan Time

# Palestine

# From Amos Shapir (1998-02-15):
#
# From 1917 until 1948-05-15, all of Palestine, including the parts now
# known as the Gaza Strip and the West Bank, was under British rule.
# Therefore the rules given for Israel for that period, apply there too...
#
# The Gaza Strip was under Egyptian rule between 1948-05-15 until 1967-06-05
# (except a short occupation by Israel from 1956-11 till 1957-03, but no
# time zone was affected then). It was never formally annexed to Egypt,
# though.
#
# The rest of Palestine was under Jordanian rule at that time, formally
# annexed in 1950 as the West Bank (and the word "Trans" was dropped from
# the country's previous name of "the Hashemite Kingdom of the
# Trans-Jordan"). So the rules for Jordan for that time apply. Major
# towns in that area are Nablus (Shchem), El-Halil (Hebron), Ramallah, and
# East Jerusalem.
#

```

# Both areas were occupied by Israel in June 1967, but not annexed (except  
# for East Jerusalem). They were on Israel time since then; there might  
# have been a Military Governor's order about time zones, but I'm not aware  
# of any (such orders may have been issued semi-annually whenever summer  
# time was in effect, but maybe the legal aspect of time was just neglected).

#

# The Palestinian Authority was established in 1993, and got hold of most  
# towns in the West Bank and Gaza by 1995. I know that in order to  
# demonstrate...independence, they have been switching to  
# summer time and back on a different schedule than Israel's, but I don't  
# know when this was started, or what algorithm is used (most likely the  
# Jordanian one).

#

# To summarize, the table should probably look something like that:

#

# Area \ when | 1918-1947 | 1948-1967 | 1967-1995 | 1996-

# -----+-----+-----+-----+-----

# Israel | Zion | Zion | Zion | Zion

# West bank | Zion | Jordan | Zion | Jordan

# Gaza | Zion | Egypt | Zion | Jordan

#

# I guess more info may be available from the PA's web page (if/when they  
# have one).

# From Paul Eggert (2006-03-22):

# Shanks & Pottenger write that Gaza did not observe DST until 1957, but go  
# with Shapir and assume that it observed DST from 1940 through 1947,  
# and that it used Jordanian rules starting in 1996.

# We don't yet need a separate entry for the West Bank, since  
# the only differences between it and Gaza that we know about  
# occurred before our cutoff date of 1970.

# However, as we get more information, we may need to add entries  
# for parts of the West Bank as they transitioned from Israel's rules  
# to Palestine's rules.

# From IINS News Service - Israel - 1998-03-23 10:38:07 Israel time,  
# forwarded by Ephraim Silverberg:

#

# Despite the fact that Israel changed over to daylight savings time  
# last week, the PLO Authority (PA) has decided not to turn its clocks  
# one-hour forward at this time. As a sign of independence from Israeli rule,  
# the PA has decided to implement DST in April.

# From Paul Eggert (1999-09-20):

# Daoud Kuttub writes in Holiday havoc

# <http://www.jpost.com/com/Archive/22.Apr.1999/Opinion/Article-2.html>

# (Jerusalem Post, 1999-04-22) that

# the Palestinian National Authority changed to DST on 1999-04-15.

# I vaguely recall that they switch back in October (sorry, forgot the source).

# For now, let's assume that the spring switch was at 24:00,

# and that they switch at 0:00 on the 3rd Fridays of April and October.

# From Paul Eggert (2005-11-22):

# Starting 2004 transitions are from Steffen Thorsen's web site [timeanddate.com](http://timeanddate.com).

# From Steffen Thorsen (2005-11-23):

# A user from Gaza reported that Gaza made the change early because of

# the Ramadan. Next year Ramadan will be even earlier, so I think

# there is a good chance next year's end date will be around two weeks

# earlier - the same goes for Jordan.

# From Steffen Thorsen (2006-08-17):

# I was informed by a user in Bethlehem that in Bethlehem it started the

# same day as Israel, and after checking with other users in the area, I

# was informed that they started DST one day after Israel. I was not

# able to find any authoritative sources at the time, nor details if

# Gaza changed as well, but presumed Gaza to follow the same rules as

# the West Bank.

# From Steffen Thorsen (2006-09-26):

# according to the Palestine News Network (2006-09-19):

# [http://english.pnn.ps/index.php?option=com\\_content&task=view&id=596&Itemid=5](http://english.pnn.ps/index.php?option=com_content&task=view&id=596&Itemid=5)

# > The Council of Ministers announced that this year its winter schedule

# > will begin early, as of midnight Thursday. It is also time to turn

# > back the clocks for winter. Friday will begin an hour late this week.

# I guess it is likely that next year's date will be moved as well,

# because of the Ramadan.

# From Jesper Nrgaard Welen (2007-09-18):

# According to Steffen Thorsen's web site the Gaza Strip and the rest of the

# Palestinian territories left DST early on 13.th. of September at 2:00.

# From Paul Eggert (2007-09-20):

# My understanding is that Gaza and the West Bank disagree even over when

# the weekend is (Thursday+Friday versus Friday+Saturday), so I'd be a bit

# surprised if they agreed about DST. But for now, assume they agree.

# For lack of better information, predict that future changes will be

# the 2nd Thursday of September at 02:00.

# From Alexander Krivenyshev (2008-08-28):

# Here is an article, that Mideast running on different clocks at Ramadan.

#

# Gaza Strip (as Egypt) ended DST at midnight Thursday (Aug 28, 2008), while

# the West Bank will end Daylight Saving Time at midnight Sunday (Aug 31, 2008).

#

# <http://www.guardian.co.uk/world/feedarticle/7759001>

# <http://www.abcnews.go.com/International/wireStory?id=5676087>  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_gazastrip01.html](http://www.worldtimezone.com/dst_news/dst_news_gazastrip01.html)

# From Alexander Krivenyshev (2009-03-26):  
# According to the Palestine News Network (arabic.pnn.ps), Palestinian  
# government decided to start Daylight Time on Thursday night March  
# 26 and continue until the night of 27 September 2009.  
#  
# (in Arabic)  
# [http://arabic.pnn.ps/index.php?option=com\\_content&task=view&id=50850](http://arabic.pnn.ps/index.php?option=com_content&task=view&id=50850)  
#  
# (English translation)  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_westbank01.html](http://www.worldtimezone.com/dst_news/dst_news_westbank01.html)

# From Steffen Thorsen (2009-08-31):  
# Palestine's Council of Ministers announced that they will revert back to  
# winter time on Friday, 2009-09-04.  
#  
# One news source:  
# <http://www.safa.ps/ara/?action=showdetail&seid=4158>  
# (Palestinian press agency, Arabic),  
# Google translate: "Decided that the Palestinian government in Ramallah  
# headed by Salam Fayyad, the start of work in time for the winter of  
# 2009, starting on Friday approved the fourth delay Sept. clock sixty  
# minutes per hour as of Friday morning."  
#  
# We are not sure if Gaza will do the same, last year they had a different  
# end date, we will keep this page updated:  
# <http://www.timeanddate.com/news/time/westbank-gaza-dst-2009.html>

# From Alexander Krivenyshev (2009-09-02):  
# Seems that Gaza Strip will go back to Winter Time same date as West Bank.  
#  
# According to Palestinian Ministry Of Interior, West Bank and Gaza Strip plan  
# to change time back to Standard time on September 4, 2009.  
#  
# "Winter time unite the West Bank and Gaza"  
# (from Palestinian National Authority):  
# <http://www.moi.gov.ps/en/?page=633167343250594025&nid=11505>  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_gazastrip02.html](http://www.worldtimezone.com/dst_news/dst_news_gazastrip02.html)

# From Alexander Krivenyshev (2010-03-19):  
# According to Voice of Palestine DST will last for 191 days, from March  
# 26, 2010 till "the last Sunday before the tenth day of Tishri  
# (October), each year" (October 03, 2010?)  
#  
# <http://palvoice.org/forums/showthread.php?t=245697>  
# (in Arabic)

# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_westbank03.html](http://www.worldtimezone.com/dst_news/dst_news_westbank03.html)

# From Steffen Thorsen (2010-03-24):

# ...Ma'an News Agency reports that Hamas cabinet has decided it will  
# start one day later, at 12:01am. Not sure if they really mean 12:01am or  
# noon though:

#

# <http://www.maannews.net/eng/ViewDetails.aspx?ID=271178>

# (Ma'an News Agency)

# "At 12:01am Friday, clocks in Israel and the West Bank will change to  
# 1:01am, while Gaza clocks will change at 12:01am Saturday morning."

# From Steffen Thorsen (2010-08-11):

# According to several sources, including

# <http://www.maannews.net/eng/ViewDetails.aspx?ID=306795>

# the clocks were set back one hour at 2010-08-11 00:00:00 local time in  
# Gaza and the West Bank.

# Some more background info:

# <http://www.timeanddate.com/news/time/westbank-gaza-end-dst-2010.html>

# From Steffen Thorsen (2011-08-26):

# Gaza and the West Bank did go back to standard time in the beginning of  
# August, and will now enter daylight saving time again on 2011-08-30  
# 00:00 (so two periods of DST in 2011). The pause was because of  
# Ramadan.

#

# <http://www.maannews.net/eng/ViewDetails.aspx?ID=416217>

# Additional info:

# <http://www.timeanddate.com/news/time/palestine-dst-2011.html>

# From Alexander Krivenyshev (2011-08-27):

# According to the article in The Jerusalem Post:

# "...Earlier this month, the Palestinian government in the West Bank decided to  
# move to standard time for 30 days, during Ramadan. The Palestinians in the  
# Gaza Strip accepted the change and also moved their clocks one hour back.  
# The Hamas government said on Saturday that it won't observe summertime after  
# the Muslim feast of Id al-Fitr, which begins on Tuesday..."

# ...

# <http://www.jpost.com/MiddleEast/Article.aspx?id=235650>

# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_gazastrip05.html](http://www.worldtimezone.com/dst_news/dst_news_gazastrip05.html)

# The rules for Egypt are stolen from the 'africa' file.

# From Steffen Thorsen (2011-09-30):

# West Bank did end Daylight Saving Time this morning/midnight (2011-09-30  
# 00:00).

# So West Bank and Gaza now have the same time again.

#

# Many sources, including:



# <http://www.maannews.net/eng/ViewDetails.aspx?ID=424808>

# From Steffen Thorsen (2012-03-26):

# Palestinian news sources tell that both Gaza and West Bank will start DST  
# on Friday (Thursday midnight, 2012-03-29 24:00).

# Some of many sources in Arabic:

# <http://www.samanews.com/index.php?act=Show&id=122638>

#

# <http://safa.ps/details/news/74352/%D8%A8%D8%AF%D8%A1-%D8%A7%D9%84%D8%AA%D9%88%D9%82%D9%8A%D8%AA-%D8%A7%D9%84%D8%B5%D9%8A%D9%81%D9%8A-%D8%A8%D8%A7%D9%84%D8%B6%D9%81%D8%A9-%D9%88%D8%BA%D8%B2%D8%A9-%D9%84%D9%8A%D9%84%D8%A9-%D8%A7%D9%84%D8%AC%D9%85%D8%B9%D8%A9.html>

#

# Our brief summary:

# <http://www.timeanddate.com/news/time/gaza-west-bank-dst-2012.html>

# From Steffen Thorsen (2013-03-26):

# The following news sources tells that Palestine will "start daylight saving  
# time from midnight on Friday, March 29, 2013" (translated).

# [These are in Arabic and are for Gaza and for Ramallah, respectively.]

# <http://www.samanews.com/index.php?act=Show&id=154120>

# <http://safa.ps/details/news/99844/%D8%B1%D8%A7%D9%85-%D8%A7%D9%84%D9%84%D9%87-%D8%A8%D8%AF%D8%A1-%D8%A7%D9%84%D8%AA%D9%88%D9%82%D9%8A%D8%AA-%D8%A7%D9%84%D8%B5%D9%8A%D9%81%D9%8A-29-%D8%A7%D9%84%D8%AC%D8%A7%D8%B1%D9%8A.html>

# From Steffen Thorsen (2013-09-24):

# The Gaza and West Bank are ending DST Thursday at midnight  
# (2013-09-27 00:00:00) (one hour earlier than last year...).

# This source in English, says "that winter time will go into effect  
# at midnight on Thursday in the West Bank and Gaza Strip":

# <http://english.wafa.ps/index.php?action=detail&id=23246>

# official source...:

# <http://www.palestinecabinet.gov.ps/ar/Views/ViewDetails.aspx?pid=1252>

# From Steffen Thorsen (2015-03-03):

# Sources such as <http://www.alquds.com/news/article/view/id/548257>

# and <http://www.raya.ps/ar/news/890705.html> say Palestine areas will

# start DST on 2015-03-28 00:00 which is one day later than expected.

#

# From Paul Eggert (2015-03-03):

# <http://www.timeanddate.com/time/change/west-bank/ramallah?year=2014>

# says that the fall 2014 transition was Oct 23 at 24:00.

# For future dates, guess the last Friday in March at 24:00 through

# the first Friday on or after October 21 at 00:00. This is consistent with

# the predictions in today's editions of the following URLs:

# <http://www.timeanddate.com/time/change/gaza-strip/gaza>

# <http://www.timeanddate.com/time/change/west-bank/hebron>

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule EgyptAsia 1957 only - May 10 0:00 1:00 S

Rule EgyptAsia 1957 1958 - Oct 1 0:00 0 -

Rule EgyptAsia 1958 only - May 1 0:00 1:00 S

Rule EgyptAsia 1959 1967 - May 1 1:00 1:00 S

Rule EgyptAsia 1959 1965 - Sep 30 3:00 0 -

Rule EgyptAsia 1966 only - Oct 1 3:00 0 -

Rule Palestine 1999 2005 - Apr Fri>=15 0:00 1:00 S

Rule Palestine 1999 2003 - Oct Fri>=15 0:00 0 -

Rule Palestine 2004 only - Oct 1 1:00 0 -

Rule Palestine 2005 only - Oct 4 2:00 0 -

Rule Palestine 2006 2007 - Apr 1 0:00 1:00 S

Rule Palestine 2006 only - Sep 22 0:00 0 -

Rule Palestine 2007 only - Sep Thu>=8 2:00 0 -

Rule Palestine 2008 2009 - Mar lastFri 0:00 1:00 S

Rule Palestine 2008 only - Sep 1 0:00 0 -

Rule Palestine 2009 only - Sep Fri>=1 1:00 0 -

Rule Palestine 2010 only - Mar 26 0:00 1:00 S

Rule Palestine 2010 only - Aug 11 0:00 0 -

Rule Palestine 2011 only - Apr 1 0:01 1:00 S

Rule Palestine 2011 only - Aug 1 0:00 0 -

Rule Palestine 2011 only - Aug 30 0:00 1:00 S

Rule Palestine 2011 only - Sep 30 0:00 0 -

Rule Palestine 2012 2014 - Mar lastThu 24:00 1:00 S

Rule Palestine 2012 only - Sep 21 1:00 0 -

Rule Palestine 2013 only - Sep Fri>=21 0:00 0 -

Rule Palestine 2014 max - Oct Fri>=21 0:00 0 -

Rule Palestine 2015 max - Mar lastFri 24:00 1:00 S

# Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Asia/Gaza 2:17:52 - LMT 1900 Oct

2:00 Zion EET 1948 May 15

2:00 EgyptAsia EE%sT 1967 Jun 5

2:00 Zion I%sT 1996

2:00 Jordan EE%sT 1999

2:00 Palestine EE%sT 2008 Aug 29 0:00

2:00 - EET 2008 Sep

2:00 Palestine EE%sT 2010

2:00 - EET 2010 Mar 27 0:01

2:00 Palestine EE%sT 2011 Aug 1

2:00 - EET 2012

2:00 Palestine EE%sT

Zone Asia/Hebron 2:20:23 - LMT 1900 Oct

2:00 Zion EET 1948 May 15

2:00 EgyptAsia EE%ST 1967 Jun 5  
2:00 Zion I%ST 1996  
2:00 Jordan EE%ST 1999  
2:00 Palestine EE%ST

# Paracel Is  
# no information

# Philippines  
# On 1844-08-16, Narciso Clavera, governor-general of the  
# Philippines, issued a proclamation announcing that 1844-12-30 was to  
# be immediately followed by 1845-01-01; see R.H. van Gent's  
# History of the International Date Line  
# [http://www.staff.science.uu.nl/~gent0113/idl/idl\\_philippines.htm](http://www.staff.science.uu.nl/~gent0113/idl/idl_philippines.htm)  
# The rest of the data entries are from Shanks & Pottenger.

# From Jesper Nrgaard Welen (2006-04-26):  
# ... claims that Philippines had DST last time in 1990:  
# <http://story.philippinetimes.com/p.x/ct/9/id/145be20cc6b121c0/cid/3e5bbccc730d258c/>  
# [a story dated 2006-04-25 by Cris Larano of Dow Jones Newswires,  
# but no details]

# From Paul Eggert (2014-08-14):  
# The following source says DST may be instituted November-January and again  
# March-June, but this is not definite. It also says DST was last proclaimed  
# during the Ramos administration (1992-1998); but again, no details.  
# Carcamo D. PNoy urged to declare use of daylight saving time.  
# Philippine Star 2014-08-05  
# <http://www.philstar.com/headlines/2014/08/05/1354152/pnoy-urged-declare-use-daylight-saving-time>

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Phil 1936 only - Nov 1 0:00 1:00 S

Rule Phil 1937 only - Feb 1 0:00 0 -

Rule Phil 1954 only - Apr 12 0:00 1:00 S

Rule Phil 1954 only - Jul 1 0:00 0 -

Rule Phil 1978 only - Mar 22 0:00 1:00 S

Rule Phil 1978 only - Sep 21 0:00 0 -

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Manila -15:56:00 - LMT 1844 Dec 31

8:04:00 - LMT 1899 May 11

8:00 Phil PH%ST 1942 May

9:00 - JST 1944 Nov

8:00 Phil PH%ST

# Qatar

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Qatar 3:26:08 - LMT 1920 # Al Dawhah / Doha

4:00 - GST 1972 Jun

3:00 - AST  
Link Asia/Qatar Asia/Bahrain

# Saudi Arabia  
#

# From Paul Eggert (2014-07-15):

# Time in Saudi Arabia and other countries in the Arabian peninsula was not  
# standardized until relatively recently; we don't know when, and possibly it  
# has never been made official. Richard P Hunt, in "Islam city yielding to  
# modern times", New York Times (1961-04-09), p 20, wrote that only airlines  
# observed standard time, and that people in Jeddah mostly observed quasi-solar  
# time, doing so by setting their watches at sunrise to 6 o'clock (or to 12  
# o'clock for "Arab" time).

#

# The TZ database cannot represent quasi-solar time; airline time is the best  
# we can do. The 1946 foreign air news digest of the U.S. Civil Aeronautics  
# Board (OCLC 42299995) reported that the "... Arabian Government, inaugurated  
# a weekly Dhahran-Cairo service, via the Saudi Arabian cities of Riyadh and  
# Jidda, on March 14, 1947". Shanks & Pottenger guessed 1950; go with the  
# earlier date.

#

# Shanks & Pottenger also state that until 1968-05-01 Saudi Arabia had two  
# time zones; the other zone, at UTC+4, was in the far eastern part of  
# the country. Ignore this, as it's before our 1970 cutoff.

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Riyadh 3:06:52 - LMT 1947 Mar 14

3:00 - AST

Link Asia/Riyadh Asia/Aden # Yemen

Link Asia/Riyadh Asia/Kuwait

# Singapore

# taken from Mok Ly Yng (2003-10-30)

# <http://www.math.nus.edu.sg/aslaksen/teaching/timezone.html>

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Singapore 6:55:25 - LMT 1901 Jan 1

6:55:25 - SMT 1905 Jun 1 # Singapore M.T.

7:00 - MALT 1933 Jan 1 # Malaya Time

7:00 0:20 MALST 1936 Jan 1

7:20 - MALT 1941 Sep 1

7:30 - MALT 1942 Feb 16

9:00 - JST 1945 Sep 12

7:30 - MALT 1965 Aug 9 # independence

7:30 - SGT 1982 Jan 1 # Singapore Time

8:00 - SGT

# Spratly Is

# no information

# Sri Lanka

# From Paul Eggert (2013-02-21):

# Milne says "Madras mean time use from May 1, 1898. Prior to this Colombo  
# mean time, 5h. 4m. 21.9s. F., was used." But 5:04:21.9 differs considerably  
# from Colombo's meridian 5:19:24, so for now ignore Milne and stick with  
# Shanks and Pottenger.

# From Paul Eggert (1996-09-03):

# "Sri Lanka advances clock by an hour to avoid blackout"  
# (<<http://www.virtual-pc.com/lankaweb/news/items/240596-2.html>>, 1996-05-24,  
# no longer available as of 1999-08-17)  
# reported "the country's standard time will be put forward by one hour at  
# midnight Friday (1830 GMT) 'in the light of the present power crisis'."  
#

# From Dharmasiri Senanayake, Sri Lanka Media Minister (1996-10-24), as quoted  
# by Shamindra in Daily News - Hot News Section  
# <[news:54rka5\\$m5h@mtinsc01-mgt.ops.worldnet.att.net](mailto:news:54rka5$m5h@mtinsc01-mgt.ops.worldnet.att.net)> (1996-10-26):  
# With effect from 12.30 a.m. on 26th October 1996  
# Sri Lanka will be six (06) hours ahead of GMT.

# From Jesper Nrgaard Welen (2006-04-14), quoting Sri Lanka News Online  
# <<http://news.sinhalaya.com/wmview.php?ArtID=11002>> (2006-04-13):  
# 0030 hrs on April 15, 2006 (midnight of April 14, 2006 +30 minutes)  
# at present, become 2400 hours of April 14, 2006 (midnight of April 14, 2006).

# From Peter Apps and Ranga Sirila of Reuters (2006-04-12) in:

# [http://today.reuters.co.uk/news/newsArticle.aspx?type=scienceNews&storyID=2006-04-12T172228Z\\_01\\_COL295762\\_RTRIDST\\_0\\_SCIENCE-SRILANKA-TIME-DC.XML](http://today.reuters.co.uk/news/newsArticle.aspx?type=scienceNews&storyID=2006-04-12T172228Z_01_COL295762_RTRIDST_0_SCIENCE-SRILANKA-TIME-DC.XML)  
# [The Tamil Tigers] never accepted the original 1996 time change and simply  
# kept their clocks set five and a half hours ahead of Greenwich Mean  
# Time (GMT), in line with neighbor India.  
# From Paul Eggert (2006-04-18):  
# People who live in regions under Tamil control can use [TZ='Asia/Kolkata'],  
# as that zone has agreed with the Tamil areas since our cutoff date of 1970.

# From K Sethu (2006-04-25):

# I think the abbreviation LKT originated from the world of computers at  
# the time of or subsequent to the time zone changes by SL Government  
# twice in 1996 and probably SL Government or its standardization  
# agencies never declared an abbreviation as a national standard.  
#  
# I recollect before the recent change the government announcements  
# mentioning it as simply changing Sri Lanka Standard Time or Sri Lanka  
# Time and no mention was made about the abbreviation.  
#  
# If we look at Sri Lanka Department of Government's "Official News

# Website of Sri Lanka" ... <http://www.news.lk/> we can see that they  
# use SLT as abbreviation in time stamp at the beginning of each news  
# item....  
#  
# Within Sri Lanka I think LKT is well known among computer users and  
# administrators. In my opinion SLT may not be a good choice because the  
# nation's largest telcom / internet operator Sri Lanka Telecom is well  
# known by that abbreviation - simply as SLT (there IP domains are  
# slt.lk and sltnet.lk).  
#  
# But if indeed our government has adopted SLT as standard abbreviation  
# (that we have not known so far) then it is better that it be used for  
# all computers.

# From Paul Eggert (2006-04-25):  
# One possibility is that we wait for a bit for the dust to settle down  
# and then see what people actually say in practice.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Asia/Colombo 5:19:24 - LMT 1880

5:19:32 - MMT 1906 # Moratuwa Mean Time

5:30 - IST 1942 Jan 5

5:30 0:30 IHST 1942 Sep

5:30 1:00 IST 1945 Oct 16 2:00

5:30 - IST 1996 May 25 0:00

6:30 - LKT 1996 Oct 26 0:30

6:00 - LKT 2006 Apr 15 0:30

5:30 - IST

# Syria

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Syria 1920 1923 - Apr Sun>=15 2:00 1:00 S

Rule Syria 1920 1923 - Oct Sun>=1 2:00 0 -

Rule Syria 1962 only - Apr 29 2:00 1:00 S

Rule Syria 1962 only - Oct 1 2:00 0 -

Rule Syria 1963 1965 - May 1 2:00 1:00 S

Rule Syria 1963 only - Sep 30 2:00 0 -

Rule Syria 1964 only - Oct 1 2:00 0 -

Rule Syria 1965 only - Sep 30 2:00 0 -

Rule Syria 1966 only - Apr 24 2:00 1:00 S

Rule Syria 1966 1976 - Oct 1 2:00 0 -

Rule Syria 1967 1978 - May 1 2:00 1:00 S

Rule Syria 1977 1978 - Sep 1 2:00 0 -

Rule Syria 1983 1984 - Apr 9 2:00 1:00 S

Rule Syria 1983 1984 - Oct 1 2:00 0 -

Rule Syria 1986 only - Feb 16 2:00 1:00 S

Rule Syria 1986 only - Oct 9 2:00 0 -

Rule Syria 1987 only - Mar 1 2:00 1:00 S

Rule Syria 1987 1988 - Oct 31 2:00 0 -  
 Rule Syria 1988 only - Mar 15 2:00 1:00 S  
 Rule Syria 1989 only - Mar 31 2:00 1:00 S  
 Rule Syria 1989 only - Oct 1 2:00 0 -  
 Rule Syria 1990 only - Apr 1 2:00 1:00 S  
 Rule Syria 1990 only - Sep 30 2:00 0 -  
 Rule Syria 1991 only - Apr 1 0:00 1:00 S  
 Rule Syria 1991 1992 - Oct 1 0:00 0 -  
 Rule Syria 1992 only - Apr 8 0:00 1:00 S  
 Rule Syria 1993 only - Mar 26 0:00 1:00 S  
 Rule Syria 1993 only - Sep 25 0:00 0 -  
 # IATA SSIM (1998-02) says 1998-04-02;  
 # (1998-09) says 1999-03-29 and 1999-09-29; (1999-02) says 1999-04-02,  
 # 2000-04-02, and 2001-04-02; (1999-09) says 2000-03-31 and 2001-03-31;  
 # (2006) says 2006-03-31 and 2006-09-22;  
 # for now ignore all these claims and go with Shanks & Pottenger,  
 # except for the 2006-09-22 claim (which seems right for Ramadan).  
 Rule Syria 1994 1996 - Apr 1 0:00 1:00 S  
 Rule Syria 1994 2005 - Oct 1 0:00 0 -  
 Rule Syria 1997 1998 - Mar lastMon 0:00 1:00 S  
 Rule Syria 1999 2006 - Apr 1 0:00 1:00 S  
 # From Stephen Colebourne (2006-09-18):  
 # According to IATA data, Syria will change DST on 21st September [21:00 UTC]  
 # this year [only].... This is probably related to Ramadan, like Egypt.  
 Rule Syria 2006 only - Sep 22 0:00 0 -  
 # From Paul Eggert (2007-03-29):  
 # Today the AP reported "Syria will switch to summertime at midnight Thursday."  
 # <http://www.iht.com/articles/ap/2007/03/29/africa/ME-GEN-Syria-Time-Change.php>  
 Rule Syria 2007 only - Mar lastFri 0:00 1:00 S  
 # From Jesper Nrgaard (2007-10-27):  
 # The sister center ICARDA of my work CIMMYT is confirming that Syria DST will  
 # not take place 1st November at 0:00 o'clock but 1st November at 24:00 or  
 # rather Midnight between Thursday and Friday. This does make more sense than  
 # having it between Wednesday and Thursday (two workdays in Syria) since the  
 # weekend in Syria is not Saturday and Sunday, but Friday and Saturday. So now  
 # it is implemented at midnight of the last workday before weekend...  
 #  
 # From Steffen Thorsen (2007-10-27):  
 # Jesper Nrgaard Welen wrote:  
 #  
 # > "Winter local time in Syria will be observed at midnight of Thursday 1  
 # > November 2007, and the clock will be put back 1 hour."  
 #  
 # I found confirmation on this in this gov.sy-article (Arabic):  
 # [http://wehda.alwehda.gov.sy/\\_print\\_veiw.asp?FileName=12521710520070926111247](http://wehda.alwehda.gov.sy/_print_veiw.asp?FileName=12521710520070926111247)  
 #  
 # which using Google's translate tools says:  
 # Council of Ministers also approved the commencement of work on

# identifying the winter time as of Friday, 2/11/2007 where the 60th

# minute delay at midnight Thursday 1/11/2007.

Rule Syria 2007 only - Nov Fri>=1 0:00 0 -

# From Stephen Colebourne (2008-03-17):

# For everyone's info, I saw an IATA time zone change for [Syria] for

# this month (March 2008) in the last day or so....

# Country Time Standard --- DST Start --- --- DST End --- DST

# Name Zone Variation Time Date Time Date

# Variation

# Syrian Arab

# Republic SY +0200 2200 03APR08 2100 30SEP08 +0300

# 2200 02APR09 2100 30SEP09 +0300

# 2200 01APR10 2100 30SEP10 +0300

# From Arthur David Olson (2008-03-17):

# Here's a link to English-language coverage by the Syrian Arab News

# Agency (SANA)...

# <http://www.sana.sy/eng/21/2008/03/11/165173.htm>

# ...which reads (in part) "The Cabinet approved the suggestion of the

# Ministry of Electricity to begin daylight savings time on Friday April

# 4th, advancing clocks one hour ahead on midnight of Thursday April 3rd."

# Since Syria is two hours east of UTC, the 2200 and 2100 transition times

# shown above match up with midnight in Syria.

# From Arthur David Olson (2008-03-18):

# My best guess at a Syrian rule is "the Friday nearest April 1";

# coding that involves either using a "Mar Fri>=29" construct that old time zone

# compilers can't handle or having multiple Rules (a la Israel).

# For now, use "Apr Fri>=1", and go with IATA on a uniform Sep 30 end.

# From Steffen Thorsen (2008-10-07):

# Syria has now officially decided to end DST on 2008-11-01 this year,

# according to the following article in the Syrian Arab News Agency (SANA).

#

# The article is in Arabic, and seems to tell that they will go back to

# winter time on 2008-11-01 at 00:00 local daylight time (delaying/setting

# clocks back 60 minutes).

#

# <http://sana.sy/ara/2/2008/10/07/195459.htm>

# From Steffen Thorsen (2009-03-19):

# Syria will start DST on 2009-03-27 00:00 this year according to many sources,

# two examples:

#

# <http://www.sana.sy/eng/21/2009/03/17/217563.htm>

# (English, Syrian Arab News # Agency)

# [http://thawra.alwehda.gov.sy/\\_View\\_news2.asp?FileName=94459258720090318012209](http://thawra.alwehda.gov.sy/_View_news2.asp?FileName=94459258720090318012209)



```

# (Arabic, gov-site)
#
# We have not found any sources saying anything about when DST ends this year.
#
# Our summary
# http://www.timeanddate.com/news/time/syria-dst-starts-march-27-2009.html

# From Steffen Thorsen (2009-10-27):
# The Syrian Arab News Network on 2009-09-29 reported that Syria will
# revert back to winter (standard) time on midnight between Thursday
# 2009-10-29 and Friday 2009-10-30:
# http://www.sana.sy/ara/2/2009/09/29/247012.htm (Arabic)

# From Arthur David Olson (2009-10-28):
# We'll see if future DST switching times turn out to be end of the last
# Thursday of the month or the start of the last Friday of the month or
# something else. For now, use the start of the last Friday.

# From Steffen Thorsen (2010-03-17):
# The "Syrian News Station" reported on 2010-03-16 that the Council of
# Ministers has decided that Syria will start DST on midnight Thursday
# 2010-04-01: (midnight between Thursday and Friday):
# http://sns.sy/sns/?path=news/read/11421 (Arabic)

# From Steffen Thorsen (2012-03-26):
# Today, Syria's government announced that they will start DST early on Friday
# (00:00). This is a bit earlier than the past two years.
#
# From Syrian Arab News Agency, in Arabic:
# http://www.sana.sy/ara/2/2012/03/26/408215.htm
#
# Our brief summary:
# http://www.timeanddate.com/news/time/syria-dst-2012.html

# From Arthur David Olson (2012-03-27):
# Assume last Friday in March going forward XXX.

Rule Syria 2008 only - Apr Fri>=1 0:00 1:00 S
Rule Syria 2008 only - Nov 1 0:00 0 -
Rule Syria 2009 only - Mar lastFri 0:00 1:00 S
Rule Syria 2010 2011 - Apr Fri>=1 0:00 1:00 S
Rule Syria 2012 max - Mar lastFri 0:00 1:00 S
Rule Syria 2009 max - Oct lastFri 0:00 0 -

# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Damascus 2:25:12 - LMT 1920 # Dimashq
2:00 Syria EE%ST

```

```

# Tajikistan
# From Shanks & Pottenger.
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Dushanbe 4:35:12 - LMT 1924 May 2
  5:00 - DUST 1930 Jun 21 # Dushanbe Time
  6:00 RussiaAsia DUS%sT 1991 Mar 31 2:00s
  5:00 1:00 DUSST 1991 Sep 9 2:00s
  5:00 - TJT # Tajikistan Time

# Thailand
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Bangkok 6:42:04 - LMT 1880
  6:42:04 - BMT 1920 Apr # Bangkok Mean Time
  7:00 - ICT
Link Asia/Bangkok Asia/Phnom_Penh # Cambodia
Link Asia/Bangkok Asia/Vientiane # Laos

# Turkmenistan
# From Shanks & Pottenger.
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Ashgabat 3:53:32 - LMT 1924 May 2 # or Ashkhabad
  4:00 - ASHT 1930 Jun 21 # Ashkhabad Time
  5:00 RussiaAsia ASH%sT 1991 Mar 31 2:00
  4:00 RussiaAsia ASH%sT 1991 Oct 27 # independence
  4:00 RussiaAsia TM%sT 1992 Jan 19 2:00
  5:00 - TMT

# United Arab Emirates
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Dubai 3:41:12 - LMT 1920
  4:00 - GST
Link Asia/Dubai Asia/Muscat # Oman

# Uzbekistan
# Byalokoz 1919 says Uzbekistan was 4:27:53.
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Asia/Samarkand 4:27:53 - LMT 1924 May 2
  4:00 - SAMT 1930 Jun 21 # Samarkand Time
  5:00 - SAMT 1981 Apr 1
  5:00 1:00 SAMST 1981 Oct 1
  6:00 - TAST 1982 Apr 1 # Tashkent Time
  5:00 RussiaAsia SAM%sT 1991 Sep 1 # independence
  5:00 RussiaAsia UZ%sT 1992
  5:00 - UZT
# Milne says Tashkent was 4:37:10.8; round to nearest.
Zone Asia/Tashkent 4:37:11 - LMT 1924 May 2
  5:00 - TAST 1930 Jun 21 # Tashkent Time
  6:00 RussiaAsia TAS%sT 1991 Mar 31 2:00

```

5:00 RussiaAsia TAS%<sup>s</sup>T 1991 Sep 1 # independence

5:00 RussiaAsia UZ%<sup>s</sup>T 1992

5:00 - UZT

# Vietnam

# From Paul Eggert (2014-10-04):

# Milne gives 7:16:56 for the meridian of Saigon in 1899, as being  
# used in Lower Laos, Cambodia, and Annam. But this is quite a ways  
# from Saigon's location. For now, ignore this and stick with Shanks  
# and Pottenger for LMT before 1906.

# From Arthur David Olson (2008-03-18):

# The English-language name of Vietnam's most populous city is "Ho Chi Minh  
# City"; use Ho\_Chi\_Minh below to avoid a name of more than 14 characters.

# From Paul Eggert (2014-10-21) after a heads-up from Trn Ngc Qun:

# Trn Tin Bnh's authoritative book "Lch Vit Nam: th k XX-XXI (1901-2100)"

# (Nh xut bn Vn Ho - Thng Tin, Hanoi, 2005), pp 49-50,

# is quoted verbatim in:

# <http://www.thoigian.com.vn/?mPage=P80D01>

# is translated by Brian Inglis in:

# <http://mm.icann.org/pipermail/tz/2014-October/021654.html>

# and is the basis for the information below.

#

# The 1906 transition was effective July 1 and standardized Indochina to

# Ph Lin Observatory, legally 104 deg. 17'17" east of Paris.

# It's unclear whether this meant legal Paris Mean Time (00:09:21) or

# the Paris Meridian (2 deg. 20'14.03" E); the former yields 07:06:30.1333...

# and the latter 07:06:29.333... so either way it rounds to 07:06:30,

# which is used below even though the modern-day Ph Lin Observatory

# is closer to 07:06:31. Abbreviate Ph Lin Mean Time as PLMT.

#

# The following transitions occurred in Indochina in general (before 1954)

# and in South Vietnam in particular (after 1954):

# To 07:00 on 1911-05-01.

# To 08:00 on 1942-12-31 at 23:00.

# To 09:00 in 1945-03-14 at 23:00.

# To 07:00 on 1945-09-02 in Vietnam.

# To 08:00 on 1947-04-01 in French-controlled Indochina.

# To 07:00 on 1955-07-01 in South Vietnam.

# To 08:00 on 1959-12-31 at 23:00 in South Vietnam.

# To 07:00 on 1975-06-13 in South Vietnam.

#

# Trn cites the following sources; it's unclear which supplied the info above.

#

# Hong Xun Hn: "Lch v lch Vit Nam". Tp san Khoa hc X hi,

# No. 9, Paris, February 1982.

#  
# L Thnh Ln: "Lch v nin biu lch s hai mi th k (0001-2010)",  
# NXB Thng k, Hanoi, 2000.  
#  
# L Thnh Ln: "Lch hai th k (1802-2010) v cc lch vnh cu",  
# NXB Thun Ho, Hu, 1995.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]  
Zone Asia/Ho\_Chi\_Minh 7:06:40 - LMT 1906 Jul 1  
7:06:30 - PLMT 1911 May 1  
7:00 - ICT 1942 Dec 31 23:00  
8:00 - IDT 1945 Mar 14 23:00  
9:00 - JST 1945 Sep 2  
7:00 - ICT 1947 Apr 1  
8:00 - IDT 1955 Jul 1  
7:00 - ICT 1959 Dec 31 23:00  
8:00 - IDT 1975 Jun 13  
7:00 - ICT

# Yemen  
# See Asia/Riyadh.  
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This is a placeholder for the Public Domain License  
README for the tz distribution

"What time is it?" -- Richard Deacon as The King  
"Any time you want it to be." -- Frank Baxter as The Scientist  
(from the Bell System film "About Time")

The Time Zone Database (often called tz or zoneinfo) contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules.

Unless otherwise specified, all files in the tz code and data are in the public domain, so clarified as of 2009-05-17 by Arthur David Olson. The few exceptions are code derived from BSD, which uses the BSD license.

Here is a recipe for acquiring, building, installing, and testing the tz distribution on a GNU/Linux or similar host.

```
mkdir tz
cd tz
wget --retr-symlinks 'ftp://ftp.iana.org/tz/tz*-latest.tar.gz'
gzip -dc tzcode-latest.tar.gz | tar -xf -
gzip -dc tzdata-latest.tar.gz | tar -xf -
```

Be sure to read the comments in "Makefile" and make any changes needed to make things right for your system, especially if you are using some platform other than GNU/Linux. Then run the following commands, substituting your desired installation directory for "\$HOME/tzdir":

```
make TOPDIR=$HOME/tzdir install
$HOME/tzdir/etc/zdump -v America/Los_Angeles
```

Historical local time information has been included here to:

- \* provide a compendium of data about the history of civil time that is useful even if not 100% accurate;
- \* give an idea of the variety of local time rules that have existed in the past and thus an idea of the variety that may be expected in the future;
- \* provide a test of the generality of the local time rule description system.

The information in the time zone data files is by no means authoritative; fixes and enhancements are welcome. Please see the file CONTRIBUTING

for details.

Thanks to these Time Zone Caballeros who've made major contributions to the time conversion package: Keith Bostic; Bob Devine; Paul Eggert; Robert Elz; Guy Harris; Mark Horton; John Mackin; and Bradley White. Thanks also to Michael Bloom, Art Neilson, Stephen Prince, John Sovereign, and Frank Wales for testing work, and to Gwillim Law for checking local mean time data. Thanks in particular to Arthur David Olson, the project's founder and first maintainer, to whom the time zone community owes the greatest debt of all. None of them are responsible for remaining errors.

Look in [<ftp://ftp.iana.org/tz/releases/>](ftp://ftp.iana.org/tz/releases/) for updated versions of these files.

Please send comments or information to [tz@iana.org](mailto:tz@iana.org).

# 1.264 udev 182.0

## 1.264.1 Available under license :

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Version 2.1, February 1999

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```
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```

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Ty Coon, President of Vice
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# 1.265 unzip 6.0

## 1.265.1 Available under license :

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---

### FIRST NOTE:

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Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

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Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

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

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



releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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```

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

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

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

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

-----

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-----

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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## 1.266 update-rc.d 0.7

### 1.266.1 Available under license :

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```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
cat >&2 <<EOF
usage: update-rc.d [-n] [-f] [-r <root>] <basename> remove
      update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
      update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN runlvl [runlvl] [...] .
-n: not really
-f: force
-v: verbose
-r: alternate root path (default is /)
-s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
local i dn fn remove=0
if [ "x$1" = "xremove" ]; then
echo " Removing any system startup links for $bn ..."
remove=1
}
```

```

fi

for i in 0 1 2 3 4 5 6 7 8 9 S; do
  dn="{etcd}${i}.d"
  if [ ! -d $dn ]; then
    continue;
  fi
  for f in ${dn}/[SK]??${bn}; do
    if [ -L $f ]; then
      if [ $remove -eq 0 ]; then
        return 1
      fi
      echo " $f"
      if [ $notreally -eq 1 ]; then
        continue
      fi
      rm $f
    fi
  done
done

return 0
}

dolink()
{
  startstop=$1
  lev=`echo $2 | cut -d/ -f1`
  nn=`echo $2 | cut -d/ -f2`
  fn="{etcd}${lev}.d/${startstop}${nn}${bn}"
  [ $verbose -eq 1 ] && echo " $fn -> ../init.d/$bn"
  if [ $notreally -eq 0 ]; then
    mkdir -p `dirname $fn`
    ln -s ../init.d/$bn $fn
  fi
  if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
    $fn start || true
  fi
}

makelinks()
{
  if ! checklinks; then
    echo " System startup links for $initd/$bn already exist."
    if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
      ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
    fi
  fi
  exit 0
}

```

fi

```
echo " Adding system startup for $initd/$bn."
```

```
for i in $startlinks; do
  dolink S $i
done
for i in $stoplinks; do
  dolink K $i
done
}
```

```
while [ $# -gt 0 ]; do
  case $1 in
    -n) notreally=1
       shift
       continue
       ;;
    -v) verbose=1
       shift
       continue
       ;;
    -f) force=1
       shift
       continue
       ;;
    -s) dostart=1
       shift
       continue
       ;;
    -r)  shift
        root=$1
        initd="{root}${initd}"
        etcd="{root}${etcd}"
        shift
        ;;
    -h | --help)
        usage
        exit 0
        ;;
    -*)
        usage
        exit 1
        ;;
    *)
        break
        ;;
  esac
```

```

done

if [ $# -lt 2 ]; then
    usage
    exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
    if which readlink >/dev/null; then
        while true; do
            linksn="$(readlink "$sn")"
            if [ -z "$linksn" ]; then
                break
            fi

            sn="$linksn"
            case "$sn" in
                /*) sn="$root$sn" ;;
                *) sn="$initd/$sn" ;;
            esac
        done
    else
        echo "update-rc.d: readlink tool not present, cannot check whether \
            $sn symlink points to a valid file." >&2
    fi
fi

if [ $1 != "remove" ]; then
    if [ ! -f "$sn" ]; then
        echo "update-rc.d: $initd/$bn: file does not exist" >&2
        exit 1
    fi
    else
        if [ -f "$sn" ]; then
            if [ $force -eq 1 ]; then
                echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
            else
                echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
                exit 1
            fi
        fi
    fi

    if [ $dostart -eq 1 ]; then

```

```

#RUNLEVEL=`sed 's/.*\[(.*)\]/1/' < /proc/1/cmdline`
RUNLEVEL=`runlevel | cut -d" " -f2`
if [ "x$RUNLEVEL" = "x" ]; then
    echo "Unable to determine current runlevel" >&2
    exit 1
fi
fi

case $1 in
remove)
    checklinks "remove"
    ;;

defaults)
    if [ $# -gt 3 ]; then
        echo "defaults takes only one or two arguments" >&2
        usage
        exit 1
    fi
    start=20
    stop=20
    if [ $# -gt 1 ]; then
        start=$2
        stop=$2
    fi
    if [ $# -gt 2 ]; then
        stop=$3
    fi
    start=`printf %02d $start`
    stop=`printf %02d $stop`
    stoplinks="0/$stop 1/$stop 6/$stop"
    startlinks="2/$start 3/$start 4/$start 5/$start"
    makelinks
    ;;

start | stop)
    while [ $# -gt 0 ]; do
        if [ $1 = "start" ]; then
            letter=S
        elif [ $1 = "stop" ]; then
            letter=K
        else
            echo "expected start or stop" >&2
            usage
            exit 1
        fi
        shift
        NN=`printf %02d $(expr $1 + 0)`

```

```

shift
while [ "x$1" != "x." ]; do
if [ $# -eq 0 ]; then
echo "action with list of runlevels not terminated by \`.`" >&2
exit 1
fi
level=$1
shift
case $letter in
S) startlinks="$startlinks $level/$NN" ;;
K) stoplinks="$stoplinks $level/$NN" ;;
esac
done
shift
done
makelinks
;;

*)
usage
exit 1
;;
esac

```

## 1.267 usbutils 7.0

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, 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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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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

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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.

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- a) Accompany the work with the complete corresponding



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

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

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

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

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

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

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## 1.269 util-linux 2.26.2

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

```
Device  Boot Start  End Sectors Size Id Type
<removed>1    2048 4095   2048   1M 83 Linux
```

-----

```
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img
```

---layout-----

```
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
```

```
Device  Boot Start  End Sectors Size Id Type
<removed>1    2048 4095   2048   1M 83 Linux
<removed>2    4096 20479 16384   8M a5 FreeBSD
```

-----

```
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img
```

---layout-----

```
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
```

```
Command (m for help): Entering nested BSD disklabel.
```

```
Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4
```

```
Slice Start  End Sectors  Size Type  Fsize Bsize Cpg
c   4096 20479 16384   8M unused   0   0   0
d    0 16064 16065  7.9M unused   0   0   0
```

```
Partition table entries are not in disk order.
```

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

| Slice | Start | End   | Sectors | Size | Type   | Fsize | Bsize | Cpg |
|-------|-------|-------|---------|------|--------|-------|-------|-----|
| a     | 4096  | 6144  | 2049    | 1M   | 4.2BSD | 0     | 0     | 0   |
| c     | 4096  | 20479 | 16384   | 8M   | unused | 0     | 0     | 0   |
| d     | 0     | 16064 | 16065   | 7.9M | unused | 0     | 0     | 0   |

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

|   |           |   |                |   |         |   |      |
|---|-----------|---|----------------|---|---------|---|------|
| 0 | unused    | 5 | 4.1BSD         | 9 | 4.4LFS  | d | boot |
| 1 | swap      | 6 | Eighth Edition | a | unknown | e | ADOS |
| 2 | Version 6 | 7 | 4.2BSD         | b | HPFS    | f | HFS  |

3 Version 7    8 MS-DOS    c ISO-9660    10 AdvFS  
4 System V

Command (m for help):

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Version 2, June 1991

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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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## 1.270 util-macros 1.19.0

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## 1.271 valgrind 3.10.1

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```
/*-*-c-*-
```

-----

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-----  
\*/

/\* This file is for inclusion into client (your!) code.

You can use these macros to manipulate and query Valgrind's execution inside your own programs.

The resulting executables will still run without Valgrind, just a little bit more slowly than they otherwise would, but otherwise unchanged. When not running on valgrind, each client request consumes very few (eg. 7) instructions, so the resulting performance loss is negligible unless you plan to execute client requests millions of times per second. Nevertheless, if that is still a problem, you can compile with the NVALGRIND symbol defined (gcc

-DNVALGRIND) so that client requests are not even compiled in. \*/

```
#ifndef __VALGRIND_H
#define __VALGRIND_H
```

```
/* ----- */
/* VERSION NUMBER OF VALGRIND */
/* ----- */
```

/\* Specify Valgrind's version number, so that user code can conditionally compile based on our version number. Note that these were introduced at version 3.6 and so do not exist in version 3.5 or earlier. The recommended way to use them to check for "version X.Y or later" is (eg)

```
#if defined(__VALGRIND_MAJOR__) && defined(__VALGRIND_MINOR__) \
    && (__VALGRIND_MAJOR__ > 3 \
        || (__VALGRIND_MAJOR__ == 3 && __VALGRIND_MINOR__ >= 6))
*/
#define __VALGRIND_MAJOR__ 3
#define __VALGRIND_MINOR__ 10
```

```
#include <stdarg.h>
```

/\* Nb: this file might be included in a file compiled with -ansi. So we can't use C++ style "/\*" comments nor the "asm" keyword (instead use "\_\_asm\_\_"). \*/

/\* Derive some tags indicating what the target platform is. Note that in this file we're using the compiler's CPP symbols for identifying architectures, which are different to the ones we use within the rest of Valgrind. Note, \_\_powerpc\_\_ is active for both 32 and 64-bit PPC, whereas \_\_powerpc64\_\_ is only active for the latter (on Linux, that is).

Misc note: how to find out what's predefined in gcc by default:

```
gcc -Wp,-dM somefile.c
```

```
*/
#undef PLAT_x86_darwin
#undef PLAT_amd64_darwin
#undef PLAT_x86_win32
#undef PLAT_amd64_win64
#undef PLAT_x86_linux
#undef PLAT_amd64_linux
#undef PLAT_ppc32_linux
#undef PLAT_ppc64be_linux
```

```

#undef PLAT_ppc64le_linux
#undef PLAT_arm_linux
#undef PLAT_arm64_linux
#undef PLAT_s390x_linux
#undef PLAT_mips32_linux
#undef PLAT_mips64_linux

#if defined(__APPLE__) && defined(__i386__)
# define PLAT_x86_darwin 1
#elif defined(__APPLE__) && defined(__x86_64__)
# define PLAT_amd64_darwin 1
#elif (defined(__MINGW32__) && !defined(__MINGW64__)) \
    || defined(__CYGWIN32__) \
    || (defined(_WIN32) && defined(_M_IX86))
# define PLAT_x86_win32 1
#elif defined(__MINGW64__) \
    || (defined(_WIN64) && defined(_M_X64))
# define PLAT_amd64_win64 1
#elif defined(__linux__) && defined(__i386__)
# define PLAT_x86_linux 1
#elif defined(__linux__) && defined(__x86_64__)
# define PLAT_amd64_linux 1
#elif defined(__linux__) && defined(__powerpc__) && !defined(__powerpc64__)
# define PLAT_ppc32_linux 1
#elif defined(__linux__) && defined(__powerpc__) && defined(__powerpc64__) && _CALL_ELF != 2
/* Big Endian uses ELF version 1 */
# define PLAT_ppc64be_linux 1
#elif defined(__linux__) && defined(__powerpc__) && defined(__powerpc64__) && _CALL_ELF == 2
/* Little Endian uses ELF version 2 */
# define PLAT_ppc64le_linux 1
#elif defined(__linux__) && defined(__arm__) && !defined(__aarch64__)
# define PLAT_arm_linux 1
#elif defined(__linux__) && defined(__aarch64__) && !defined(__arm__)
# define PLAT_arm64_linux 1
#elif defined(__linux__) && defined(__s390__) && defined(__s390x__)
# define PLAT_s390x_linux 1
#elif defined(__linux__) && defined(__mips__) && (__mips==64)
# define PLAT_mips64_linux 1
#elif defined(__linux__) && defined(__mips__) && (__mips!=64)
# define PLAT_mips32_linux 1
#else
/* If we're not compiling for our target platform, don't generate
any inline asms. */
# if !defined(NVALGRIND)
# define NVALGRIND 1
# endif
#endif

```

```

/* ----- */
/* ARCHITECTURE SPECIFICS for SPECIAL INSTRUCTIONS. There is nothing */
/* in here of use to end-users -- skip to the next section.      */
/* ----- */

/*
* VALGRIND_DO_CLIENT_REQUEST(): a statement that invokes a Valgrind client
* request. Accepts both pointers and integers as arguments.
*
* VALGRIND_DO_CLIENT_REQUEST_STMT(): a statement that invokes a Valgrind
* client request that does not return a value.

* VALGRIND_DO_CLIENT_REQUEST_EXPR(): a C expression that invokes a Valgrind
* client request and whose value equals the client request result. Accepts
* both pointers and integers as arguments. Note that such calls are not
* necessarily pure functions -- they may have side effects.
*/

#define VALGRIND_DO_CLIENT_REQUEST(_zzq_rlval, _zzq_default, \
    _zzq_request, _zzq_arg1, _zzq_arg2, \
    _zzq_arg3, _zzq_arg4, _zzq_arg5) \
do { (_zzq_rlval) = VALGRIND_DO_CLIENT_REQUEST_EXPR((_zzq_default), \
    (_zzq_request), (_zzq_arg1), (_zzq_arg2), \
    (_zzq_arg3), (_zzq_arg4), (_zzq_arg5)); } while (0)

#define VALGRIND_DO_CLIENT_REQUEST_STMT(_zzq_request, _zzq_arg1, \
    _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
do { (void) VALGRIND_DO_CLIENT_REQUEST_EXPR(0, \
    (_zzq_request), (_zzq_arg1), (_zzq_arg2), \
    (_zzq_arg3), (_zzq_arg4), (_zzq_arg5)); } while (0)

#if defined(NVALGRIND)

/* Define NVALGRIND to completely remove the Valgrind magic sequence
from the compiled code (analogous to NDEBUG's effects on
assert()) */
#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
    (_zzq_default)

#else /* ! NVALGRIND */

/* The following defines the magic code sequences which the JITter
spots and handles magically. Don't look too closely at them as
they will rot your brain.

```

The assembly code sequences for all architectures is in this one file. This is because this file must be stand-alone, and we don't want to have multiple files.

For VALGRIND\_DO\_CLIENT\_REQUEST, we must ensure that the default value gets put in the return slot, so that everything works when this is executed not under Valgrind. Args are passed in a memory block, and so there's no intrinsic limit to the number that could be passed, but it's currently five.

The macro args are:

```
_zzq_rlval  result lvalue
_zzq_default  default value (result returned when running on real CPU)
_zzq_request  request code
_zzq_arg1..5  request params
```

The other two macros are used to support function wrapping, and are a lot simpler. VALGRIND\_GET\_NR\_CONTEXT returns the value of the guest's NRADDR pseudo-register and whatever other information is needed to safely run the call original from the wrapper: on ppc64-linux, the R2 value at the divert point is also needed. This information is abstracted into a user-visible type, OrigFn.

VALGRIND\_CALL\_NOREDIR\_\* behaves the same as the following on the guest, but guarantees that the branch instruction will not be redirected: x86: call %eax, amd64: call %rax, ppc32/ppc64: branch-and-link-to-r11. VALGRIND\_CALL\_NOREDIR is just text, not a complete inline asm, since it needs to be combined with more magic inline asm stuff to be useful.

```
*/

/* ----- x86-{linux,darwin} ----- */

#if defined(PLAT_x86_linux) || defined(PLAT_x86_darwin) \
    || (defined(PLAT_x86_win32) && defined(__GNUC__))

typedef
struct {
    unsigned int nraddr; /* where's the code? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "roll $3, %%edi ; roll $13, %%edi\n\t" \
    "roll $29, %%edi ; roll $19, %%edi\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
```

```

    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
__extension__ \
({volatile unsigned int _zzq_args[6]; \
volatile unsigned int _zzq_result; \
_zzq_args[0] = (unsigned int)(_zzq_request); \
_zzq_args[1] = (unsigned int)(_zzq_arg1); \
_zzq_args[2] = (unsigned int)(_zzq_arg2); \
_zzq_args[3] = (unsigned int)(_zzq_arg3); \
_zzq_args[4] = (unsigned int)(_zzq_arg4); \
_zzq_args[5] = (unsigned int)(_zzq_arg5); \
__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
/* %EDX = client_request ( %EAX ) */ \
"xchgl %%ebx,%%ebx" \
: "=d" (_zzq_result) \
: "a" (&_zzq_args[0]), "0" (_zzq_default) \
: "cc", "memory" \
); \
_zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
volatile unsigned int __addr; \
__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
/* %EAX = guest_NRADDR */ \
"xchgl %%ecx,%%ecx" \
: "=a" (__addr) \
: \
: "cc", "memory" \
); \
_zzq_orig->nraddr = __addr; \
}

#define VALGRIND_CALL_NOEDIR_EAX \
__SPECIAL_INSTRUCTION_PREAMBLE \
/* call-noredir *%EAX */ \
"xchgl %%edx,%%edx\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \
__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
"xchgl %%edi,%%edi\n\t" \
: : : "cc", "memory" \
); \
} while (0)

#endif /* PLAT_x86_linux || PLAT_x86_darwin || (PLAT_x86_win32 && __GNUC__) */

```

```

/* ----- x86-Win32 ----- */

#if defined(PLAT_x86_win32) && !defined(__GNUC__)

typedef
struct {
    unsigned int naddr; /* where's the code? */
}
OrigFn;

#if defined(_MSC_VER)

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    __asm rol edi, 3 __asm rol edi, 13 \
    __asm rol edi, 29 __asm rol edi, 19

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
    valgrind_do_client_request_expr((uintptr_t)(_zzq_default), \
    (uintptr_t)(_zzq_request), (uintptr_t)(_zzq_arg1), \
    (uintptr_t)(_zzq_arg2), (uintptr_t)(_zzq_arg3), \
    (uintptr_t)(_zzq_arg4), (uintptr_t)(_zzq_arg5))

static __inline uintptr_t
valgrind_do_client_request_expr(uintptr_t _zzq_default, uintptr_t _zzq_request,
    uintptr_t _zzq_arg1, uintptr_t _zzq_arg2,
    uintptr_t _zzq_arg3, uintptr_t _zzq_arg4,
    uintptr_t _zzq_arg5)
{
    volatile uintptr_t _zzq_args[6];
    volatile unsigned int _zzq_result;
    _zzq_args[0] = (uintptr_t)(_zzq_request);
    _zzq_args[1] = (uintptr_t)(_zzq_arg1);
    _zzq_args[2] = (uintptr_t)(_zzq_arg2);
    _zzq_args[3] = (uintptr_t)(_zzq_arg3);
    _zzq_args[4] = (uintptr_t)(_zzq_arg4);
    _zzq_args[5] = (uintptr_t)(_zzq_arg5);
    __asm { __asm lea eax, _zzq_args __asm mov edx, _zzq_default
        __SPECIAL_INSTRUCTION_PREAMBLE
        /* %EDX = client_request ( %EAX ) */
        __asm xchg ebx,ebx
        __asm mov _zzq_result, edx
    }
    return _zzq_result;
}

```

```

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
  volatile unsigned int __addr; \
  __asm { __SPECIAL_INSTRUCTION_PREAMBLE \
    /* %EAX = guest_NRADDR */ \
    __asm xchg ecx,ecx \
    __asm mov __addr, eax \
  } \
  _zzq_orig->nraddr = __addr; \
}

#define VALGRIND_CALL_NOREDIR_EAX ERROR

#define VALGRIND_VEX_INJECT_IR() \
do { \
  __asm { __SPECIAL_INSTRUCTION_PREAMBLE \
    __asm xchg edi,edi \
  } \
} while (0)

#else
#error Unsupported compiler.
#endif

#endif /* PLAT_x86_win32 */

/* ----- amd64-{linux,darwin} ----- */

#if defined(PLAT_amd64_linux) || defined(PLAT_amd64_darwin) \
|| (defined(PLAT_amd64_win64) && defined(__GNUC__))

typedef
struct {
  unsigned long long int nraddr; /* where's the code? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE \
  "rolq $3, %%rdi ; rolq $13, %%rdi\n\t" \
  "rolq $61, %%rdi ; rolq $51, %%rdi\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
  _zzq_default, _zzq_request, \
  _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
__extension__ \
({ volatile unsigned long long int _zzq_args[6]; \
  volatile unsigned long long int _zzq_result; \
  _zzq_args[0] = (unsigned long long int)(_zzq_request); \

```



```

_zzq_args[1] = (unsigned long long int)(_zzq_arg1); \
_zzq_args[2] = (unsigned long long int)(_zzq_arg2); \
_zzq_args[3] = (unsigned long long int)(_zzq_arg3); \
_zzq_args[4] = (unsigned long long int)(_zzq_arg4); \
_zzq_args[5] = (unsigned long long int)(_zzq_arg5); \
__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    /* %RDX = client_request ( %RAX ) */ \
    "xchgq %%rbx,%%rbx" \
    : "=d" (_zzq_result) \
    : "a" (&_zzq_args[0]), "0" (_zzq_default) \
    : "cc", "memory" \
    ); \
_zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
  volatile unsigned long long int __addr; \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    /* %RAX = guest_NRADDR */ \
    "xchgq %%rcx,%%rcx" \
    : "=a" (__addr) \
    : \
    : "cc", "memory" \
    ); \
  _zzq_orig->nraddr = __addr; \
}

#define VALGRIND_CALL_NOEDIR_RAX \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* call-noredir %%RAX */ \
    "xchgq %%rdx,%%rdx\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    "xchgq %%rdi,%%rdi\n\t" \
    : : "cc", "memory" \
    ); \
} while (0)

#endif /* PLAT_amd64_linux || PLAT_amd64_darwin */

/* ----- amd64-Win64 ----- */

#if defined(PLAT_amd64_win64) && !defined(__GNUC__)

#error Unsupported compiler.

```

```

#endif /* PLAT_amd64_win64 */

/* ----- ppc32-linux ----- */

#if defined(PLAT_ppc32_linux)

typedef
struct {
    unsigned int naddr; /* where's the code? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "rlwinm 0,0,3,0,31 ; rlwinm 0,0,13,0,31\n\t" \
    "rlwinm 0,0,29,0,31 ; rlwinm 0,0,19,0,31\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
    \
    __extension__ \
    ({ \
        unsigned int _zzq_args[6]; \
        unsigned int _zzq_result; \
        unsigned int* _zzq_ptr; \
        _zzq_args[0] = (unsigned int)(_zzq_request); \
        _zzq_args[1] = (unsigned int)(_zzq_arg1); \
        _zzq_args[2] = (unsigned int)(_zzq_arg2); \
        _zzq_args[3] = (unsigned int)(_zzq_arg3); \
        _zzq_args[4] = (unsigned int)(_zzq_arg4); \
        _zzq_args[5] = (unsigned int)(_zzq_arg5); \
        _zzq_ptr = _zzq_args; \
        __asm__ volatile("mr 3,%1\n\t" /*default*/ \
            "mr 4,%2\n\t" /*ptr*/ \
            __SPECIAL_INSTRUCTION_PREAMBLE \
            /* %R3 = client_request ( %R4 ) */ \
            "or 1,1,1\n\t" \
            "mr %0,3" /*result*/ \
            : "=b" (_zzq_result) \
            : "b" (_zzq_default), "b" (_zzq_ptr) \
            : "cc", "memory", "r3", "r4"); \
        _zzq_result; \
    })

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
    { volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
        unsigned int __addr; \
        __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \

```

```

        /* %R3 = guest_NRADDR */          \
        "or 2,2,2\n\t"                    \
        "mr %0,3"                          \
        : "=b" (__addr)                    \
        :                                    \
        : "cc", "memory", "r3"            \
    );                                     \
    _zzq_orig->nraddr = __addr;            \
}

#define VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* branch-and-link-to-noredir %%R11 */ \
    "or 3,3,3\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \
    __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
        "or 5,5,5\n\t" \
    ); \
} while (0)

#endif /* PLAT_ppc32_linux */

/* ----- ppc64-linux ----- */

#if defined(PLAT_ppc64be_linux)

typedef
struct {
    unsigned long long int nraddr; /* where's the code? */
    unsigned long long int r2; /* what tocptr do we need? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "rotldi 0,0,3 ; rotldi 0,0,13\n\t" \
    "rotldi 0,0,61 ; rotldi 0,0,51\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
    \
    __extension__ \
    ({ \
        unsigned long long int _zzq_args[6]; \
        unsigned long long int _zzq_result; \
        unsigned long long int* _zzq_ptr; \
        _zzq_args[0] = (unsigned long long int)(_zzq_request); \
    })

```

```

_zzq_args[1] = (unsigned long long int)(_zzq_arg1); \
_zzq_args[2] = (unsigned long long int)(_zzq_arg2); \
_zzq_args[3] = (unsigned long long int)(_zzq_arg3); \
_zzq_args[4] = (unsigned long long int)(_zzq_arg4); \
_zzq_args[5] = (unsigned long long int)(_zzq_arg5); \
_zzq_ptr = _zzq_args; \
__asm__ volatile("mr 3,%1\n\t" /*default*/ \
                "mr 4,%2\n\t" /*ptr*/ \
                __SPECIAL_INSTRUCTION_PREAMBLE \
                /* %R3 = client_request ( %R4 ) */ \
                "or 1,1,1\n\t" \
                "mr %0,3" /*result*/ \
                : "=b" (_zzq_result) \
                : "b" (_zzq_default), "b" (_zzq_ptr) \
                : "cc", "memory", "r3", "r4"); \
_zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
  unsigned long long int __addr; \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
                  /* %R3 = guest_NRADDR */ \
                  "or 2,2,2\n\t" \
                  "mr %0,3" \
                  : "=b" (__addr) \
                  : \
                  : "cc", "memory", "r3" \
                  ); \
  _zzq_orig->nraddr = __addr; \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
                  /* %R3 = guest_NRADDR_GPR2 */ \
                  "or 4,4,4\n\t" \
                  "mr %0,3" \
                  : "=b" (__addr) \
                  : \
                  : "cc", "memory", "r3" \
                  ); \
  _zzq_orig->r2 = __addr; \
}

#define VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
  __SPECIAL_INSTRUCTION_PREAMBLE \
  /* branch-and-link-to-noredir *%R11 */ \
  "or 3,3,3\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \

```

```

__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE
    "or 5,5,5\n\t"
);
} while (0)

#endif /* PLAT_ppc64be_linux */

#if defined(PLAT_ppc64le_linux)

typedef
struct {
    unsigned long long int naddr; /* where's the code? */
    unsigned long long int r2; /* what tocptr do we need? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE
    "rotldi 0,0,3 ; rotldi 0,0,13\n\t"
    "rotldi 0,0,61 ; rotldi 0,0,51\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR(
    _zzq_default, _zzq_request,
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5)

__extension__
({
    unsigned long long int _zzq_args[6];
    unsigned long long int _zzq_result;
    unsigned long long int* _zzq_ptr;
    _zzq_args[0] = (unsigned long long int)(_zzq_request);
    _zzq_args[1] = (unsigned long long int)(_zzq_arg1);
    _zzq_args[2] = (unsigned long long int)(_zzq_arg2);
    _zzq_args[3] = (unsigned long long int)(_zzq_arg3);
    _zzq_args[4] = (unsigned long long int)(_zzq_arg4);
    _zzq_args[5] = (unsigned long long int)(_zzq_arg5);
    _zzq_ptr = _zzq_args;
    __asm__ volatile("mr 3,%1\n\t" /*default*/
        "mr 4,%2\n\t" /*ptr*/
        __SPECIAL_INSTRUCTION_PREAMBLE
        /* %R3 = client_request ( %R4 ) */
        "or 1,1,1\n\t"
        "mr %0,3" /*result*/
        : "=b" (_zzq_result)
        : "b" (_zzq_default), "b" (_zzq_ptr)
        : "cc", "memory", "r3", "r4");
    _zzq_result;
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval)

```

```

{ volatile OrigFn* _zzq_orig = &(_zzq_rlval);          \
  unsigned long long int __addr;                      \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE    \
    /* %R3 = guest_NRADDR */                        \
    "or 2,2,2\n\t"                                  \
    "mr %0,3"                                        \
    : "=b" (__addr)                                 \
    :                                               \
    : "cc", "memory", "r3"                          \
    );                                               \
  _zzq_orig->nraddr = __addr;                        \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE    \
    /* %R3 = guest_NRADDR_GPR2 */                  \
    "or 4,4,4\n\t"                                  \
    "mr %0,3"                                        \
    : "=b" (__addr)                                 \
    :                                               \
    : "cc", "memory", "r3"                          \
    );                                               \
  _zzq_orig->r2 = __addr;                            \
}

#define VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12      \
  __SPECIAL_INSTRUCTION_PREAMBLE                    \
  /* branch-and-link-to-noredir %%R12 */           \
  "or 3,3,3\n\t"

#define VALGRIND_VEX_INJECT_IR()                   \
do {                                               \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE  \
    "or 5,5,5\n\t"                                  \
    );                                              \
} while (0)

#endif /* PLAT_ppc64le_linux */

/* ----- arm-linux ----- */

#if defined(PLAT_arm_linux)

typedef
struct {
  unsigned int nraddr; /* where's the code? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE              \
  "mov r12, r12, ror #3 ; mov r12, r12, ror #13 \n\t" \

```

```

"mov r12, r12, ror #29 ; mov r12, r12, ror #19 \n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    __zzq_default, __zzq_request, \
    __zzq_arg1, __zzq_arg2, __zzq_arg3, __zzq_arg4, __zzq_arg5) \
    \
    __extension__ \
    ({ volatile unsigned int __zzq_args[6]; \
    volatile unsigned int __zzq_result; \
    __zzq_args[0] = (unsigned int)(__zzq_request); \
    __zzq_args[1] = (unsigned int)(__zzq_arg1); \
    __zzq_args[2] = (unsigned int)(__zzq_arg2); \
    __zzq_args[3] = (unsigned int)(__zzq_arg3); \
    __zzq_args[4] = (unsigned int)(__zzq_arg4); \
    __zzq_args[5] = (unsigned int)(__zzq_arg5); \
    __asm__ volatile("mov r3, %1\n\t" /*default*/ \
    "mov r4, %2\n\t" /*ptr*/ \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* R3 = client_request ( R4 ) */ \
    "orr r10, r10, r10\n\t" \
    "mov %0, r3" /*result*/ \
    : "=r" (__zzq_result) \
    : "r" (__zzq_default), "r" (&__zzq_args[0]) \
    : "cc", "memory", "r3", "r4"); \
    __zzq_result; \
    })

#define VALGRIND_GET_NR_CONTEXT(__zzq_rlval) \
    { volatile OrigFn* __zzq_orig = &(__zzq_rlval); \
    unsigned int __addr; \
    __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    /* R3 = guest_NRADDR */ \
    "orr r11, r11, r11\n\t" \
    "mov %0, r3" \
    : "=r" (__addr) \
    : \
    : "cc", "memory", "r3" \
    ); \
    __zzq_orig->nraddr = __addr; \
    }

#define VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* branch-and-link-to-noredir *%R4 */ \
    "orr r12, r12, r12\n\t"

#define VALGRIND_VEX_INJECT_IR() \
    do { \

```

```

__asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    "orr r9, r9, r9\n\t" \
    ::: "cc", "memory" \
); \
} while (0)

#endif /* PLAT_arm_linux */

/* ----- arm64-linux ----- */

#if defined(PLAT_arm64_linux)

typedef
struct {
    unsigned long long int nraddr; /* where's the code? */
}
OrigFn;

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "ror x12, x12, #3 ; ror x12, x12, #13 \n\t" \
    "ror x12, x12, #51 ; ror x12, x12, #61 \n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
    \
__extension__ \
({ volatile unsigned long long int _zzq_args[6]; \
    volatile unsigned long long int _zzq_result; \
    _zzq_args[0] = (unsigned long long int)(_zzq_request); \
    _zzq_args[1] = (unsigned long long int)(_zzq_arg1); \
    _zzq_args[2] = (unsigned long long int)(_zzq_arg2); \
    _zzq_args[3] = (unsigned long long int)(_zzq_arg3); \
    _zzq_args[4] = (unsigned long long int)(_zzq_arg4); \
    _zzq_args[5] = (unsigned long long int)(_zzq_arg5); \
    __asm__ volatile("mov x3, %1\n\t" /*default*/ \
        "mov x4, %2\n\t" /*ptr*/ \
        __SPECIAL_INSTRUCTION_PREAMBLE \
        /* X3 = client_request ( X4 ) */ \
        "orr x10, x10, x10\n\t" \
        "mov %0, x3" /*result*/ \
        : "=r" (_zzq_result) \
        : "r" (_zzq_default), "r" (&_zzq_args[0]) \
        : "cc", "memory", "x3", "x4"); \
    _zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \

```



```

{ volatile OrigFn* _zzq_orig = &(_zzq_rlval);          \
  unsigned long long int __addr;                      \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE    \
    /* X3 = guest_NRADDR */                          \
    "orr x11, x11, x11\n\t"                          \
    "mov %0, x3"                                      \
    : "=r" (__addr)                                  \
    :                                                \
    : "cc", "memory", "x3"                          \
    );                                               \
  _zzq_orig->nraddr = __addr;                        \
}

#define VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8      \
  __SPECIAL_INSTRUCTION_PREAMBLE                   \
  /* branch-and-link-to-noredir X8 */              \
  "orr x12, x12, x12\n\t"

#define VALGRIND_VEX_INJECT_IR()                  \
do {                                              \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    "orr x9, x9, x9\n\t"                        \
    : : "cc", "memory"                          \
    );                                           \
} while (0)

#endif /* PLAT_arm64_linux */

/* ----- s390x-linux ----- */

#if defined(PLAT_s390x_linux)

typedef
struct {
  unsigned long long int nraddr; /* where's the code? */
}
OrigFn;

/* __SPECIAL_INSTRUCTION_PREAMBLE will be used to identify Valgrind specific
 * code. This detection is implemented in platform specific toIR.c
 * (e.g. VEX/priv/guest_s390_decoder.c).
 */

#define __SPECIAL_INSTRUCTION_PREAMBLE            \
  "lr 15,15\n\t"                                \
  "lr 1,1\n\t"                                  \
  "lr 2,2\n\t"                                  \
  "lr 3,3\n\t"

```

```

#define __CLIENT_REQUEST_CODE "lr 2,2\n\t"
#define __GET_NR_CONTEXT_CODE "lr 3,3\n\t"
#define __CALL_NO_REDIR_CODE "lr 4,4\n\t"
#define __VEX_INJECT_IR_CODE "lr 5,5\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR(
    __zzq_default, __zzq_request,
    __zzq_arg1, __zzq_arg2, __zzq_arg3, __zzq_arg4, __zzq_arg5) \
    __extension__ \
    ({ volatile unsigned long long int __zzq_args[6]; \
    volatile unsigned long long int __zzq_result; \
    __zzq_args[0] = (unsigned long long int)(__zzq_request); \
    __zzq_args[1] = (unsigned long long int)(__zzq_arg1); \
    __zzq_args[2] = (unsigned long long int)(__zzq_arg2); \
    __zzq_args[3] = (unsigned long long int)(__zzq_arg3); \
    __zzq_args[4] = (unsigned long long int)(__zzq_arg4); \
    __zzq_args[5] = (unsigned long long int)(__zzq_arg5); \
    __asm__ volatile( /* r2 = args */ \
        "lgr 2,%1\n\t" \
        /* r3 = default */ \
        "lgr 3,%2\n\t" \
        __SPECIAL_INSTRUCTION_PREAMBLE \
        __CLIENT_REQUEST_CODE \
        /* results = r3 */ \
        "lgr %0, 3\n\t" \
        : "=d" (__zzq_result) \
        : "a" (&__zzq_args[0]), "0" (__zzq_default) \
        : "cc", "2", "3", "memory" \
        ); \
    __zzq_result; \
    })

#define VALGRIND_GET_NR_CONTEXT(__zzq_r1val) \
    { volatile OrigFn* __zzq_orig = &(__zzq_r1val); \
    volatile unsigned long long int __addr; \
    __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
        __GET_NR_CONTEXT_CODE \
        "lgr %0, 3\n\t" \
        : "=a" (__addr) \
        : \
        : "cc", "3", "memory" \
        ); \
    __zzq_orig->nradddr = __addr; \
    }

#define VALGRIND_CALL_NOREDIR_R1 \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    __CALL_NO_REDIR_CODE

```

```

#define VALGRIND_VEX_INJECT_IR() \
do { \
    __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
        __VEX_INJECT_IR_CODE); \
} while (0)

#endif /* PLAT_s390x_linux */

/* ----- mips32-linux ----- */

#if defined(PLAT_mips32_linux)

typedef
struct {
    unsigned int naddr; /* where's the code? */
}
OrigFn;

/* .word 0x342
* .word 0x742
* .word 0xC2
* .word 0x4C2*/
#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "srl $0, $0, 13\n\t" \
    "srl $0, $0, 29\n\t" \
    "srl $0, $0, 3\n\t" \
    "srl $0, $0, 19\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
__extension__ \
({ volatile unsigned int _zzq_args[6]; \
volatile unsigned int _zzq_result; \
_zzq_args[0] = (unsigned int)(_zzq_request); \
_zzq_args[1] = (unsigned int)(_zzq_arg1); \
_zzq_args[2] = (unsigned int)(_zzq_arg2); \
_zzq_args[3] = (unsigned int)(_zzq_arg3); \
_zzq_args[4] = (unsigned int)(_zzq_arg4); \
_zzq_args[5] = (unsigned int)(_zzq_arg5); \
__asm__ volatile("move $11, %1\n\t" /*default*/ \
    "move $12, %2\n\t" /*ptr*/ \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* T3 = client_request ( T4 ) */ \
    "or $13, $13, $13\n\t" \
    "move %0, $11\n\t" /*result*/ \
    : "=r" (_zzq_result) \

```

```

        : "r" (_zzq_default), "r" (&_zzq_args[0]) \
        : "$11", "$12"); \
    _zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
  volatile unsigned int __addr; \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    /* %t9 = guest_NRADDR */ \
    "or $14, $14, $14\n\t" \
    "move %0, $11" /*result*/ \
    : "=r" (__addr) \
    : \
    : "$11" \
    ); \
  _zzq_orig->nraddr = __addr; \
}

#define VALGRIND_CALL_NOREDIR_T9 \
  __SPECIAL_INSTRUCTION_PREAMBLE \
  /* call-noredir %%t9 */ \
  "or $15, $15, $15\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \
  __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    "or $11, $11, $11\n\t" \
    ); \
} while (0)

#endif /* PLAT_mips32_linux */

/* ----- mips64-linux ----- */

#if defined(PLAT_mips64_linux)

typedef
struct {
  unsigned long long nraddr; /* where's the code? */
}
OrigFn;

/* dsll $0,$0, 3
* dsll $0,$0, 13
* dsll $0,$0, 29
* dsll $0,$0, 19*/

```

```

#define __SPECIAL_INSTRUCTION_PREAMBLE \
    "dsll $0,$0, 3 ; dsll $0,$0,13\n\t" \
    "dsll $0,$0,29 ; dsll $0,$0,19\n\t"

#define VALGRIND_DO_CLIENT_REQUEST_EXPR( \
    _zzq_default, _zzq_request, \
    _zzq_arg1, _zzq_arg2, _zzq_arg3, _zzq_arg4, _zzq_arg5) \
__extension__ \
({ volatile unsigned long long int _zzq_args[6]; \
volatile unsigned long long int _zzq_result; \
_ _zzq_args[0] = (unsigned long long int)(_zzq_request); \
_ _zzq_args[1] = (unsigned long long int)(_zzq_arg1); \
_ _zzq_args[2] = (unsigned long long int)(_zzq_arg2); \
_ _zzq_args[3] = (unsigned long long int)(_zzq_arg3); \
_ _zzq_args[4] = (unsigned long long int)(_zzq_arg4); \
_ _zzq_args[5] = (unsigned long long int)(_zzq_arg5); \
_ _asm__ volatile("move $11, %1\n\t" /*default*/ \
    "move $12, %2\n\t" /*ptr*/ \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* $11 = client_request ( $12 ) */ \
    "or $13, $13, $13\n\t" \
    "move %0, $11\n\t" /*result*/ \
    : "=r" (_zzq_result) \
    : "r" (_zzq_default), "r" (&_zzq_args[0]) \
    : "$11", "$12"); \
_ _zzq_result; \
})

#define VALGRIND_GET_NR_CONTEXT(_zzq_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
volatile unsigned long long int __addr; \
_ _asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE \
    /* $11 = guest_NRADDR */ \
    "or $14, $14, $14\n\t" \
    "move %0, $11" /*result*/ \
    : "=r" (__addr) \
    : \
    : "$11"); \
_ _zzq_orig->nraddr = __addr; \
}

#define VALGRIND_CALL_NOREDIR_T9 \
    __SPECIAL_INSTRUCTION_PREAMBLE \
    /* call-noredir $25 */ \
    "or $15, $15, $15\n\t"

#define VALGRIND_VEX_INJECT_IR() \
do { \

```

```

    __asm__ volatile(__SPECIAL_INSTRUCTION_PREAMBLE
        "or $11, $11, $11\n\t"
    );
} while (0)

#endif /* PLAT_mips64_linux */

/* Insert assembly code for other platforms here... */

#endif /* NVALGRIND */

/* ----- */
/* PLATFORM SPECIFICS for FUNCTION WRAPPING. This is all very */
/* ugly. It's the least-worst tradeoff I can think of. */
/* ----- */

/* This section defines magic (a.k.a appalling-hack) macros for doing
guaranteed-no-redirection macros, so as to get from function
wrappers to the functions they are wrapping. The whole point is to
construct standard call sequences, but to do the call itself with a
special no-redirect call pseudo-instruction that the JIT
understands and handles specially. This section is long and
repetitious, and I can't see a way to make it shorter.

The naming scheme is as follows:

    CALL_FN_{W,v}_{v,W,WW,WWW,WWWW,5W,6W,7W,etc}

'W' stands for "word" and 'v' for "void". Hence there are
different macros for calling arity 0, 1, 2, 3, 4, etc, functions,
and for each, the possibility of returning a word-typed result, or
no result.
*/

/* Use these to write the name of your wrapper. NOTE: duplicates
VG_WRAP_FUNCTION_Z{U,Z} in pub_tool_redir.h. NOTE also: inserts
the default behaviour equivalence class tag "0000" into the name.
See pub_tool_redir.h for details -- normally you don't need to
think about this, though. */

/* Use an extra level of macroisation so as to ensure the soname/fname
args are fully macro-expanded before pasting them together. */
#define VG_CONCAT4(_aa,_bb,_cc,_dd) _aa##_bb##_cc##_dd

#define I_WRAP_SONAME_FNAME_ZU(soname,fname) \
    VG_CONCAT4(_vgw00000ZU_,soname,_,fname)

```

```

#define I_WRAP_SONAME_FNNAME_ZZ(soname,fnname) \
    VG_CONCAT4(_vgw00000ZZ_,soname,_,fnname)

/* Use this macro from within a wrapper function to collect the
context (address and possibly other info) of the original function.
Once you have that you can then use it in one of the CALL_FN_
macros. The type of the argument _lval is OrigFn. */
#define VALGRIND_GET_ORIG_FN(_lval) VALGRIND_GET_NR_CONTEXT(_lval)

/* Also provide end-user facilities for function replacement, rather
than wrapping. A replacement function differs from a wrapper in
that it has no way to get hold of the original function being
called, and hence no way to call onwards to it. In a replacement
function, VALGRIND_GET_ORIG_FN always returns zero. */

#define I_REPLACE_SONAME_FNNAME_ZU(soname,fnname) \
    VG_CONCAT4(_vgr00000ZU_,soname,_,fnname)

#define I_REPLACE_SONAME_FNNAME_ZZ(soname,fnname) \
    VG_CONCAT4(_vgr00000ZZ_,soname,_,fnname)

/* Derivatives of the main macros below, for calling functions
returning void. */

#define CALL_FN_v_v(fnptr) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_v(_junk,fnptr); } while (0)

#define CALL_FN_v_W(fnptr, arg1) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_W(_junk,fnptr,arg1); } while (0)

#define CALL_FN_v_WW(fnptr, arg1,arg2) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_WW(_junk,fnptr,arg1,arg2); } while (0)

#define CALL_FN_v_WWW(fnptr, arg1,arg2,arg3) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_WWW(_junk,fnptr,arg1,arg2,arg3); } while (0)

#define CALL_FN_v_WWWW(fnptr, arg1,arg2,arg3,arg4) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_WWWW(_junk,fnptr,arg1,arg2,arg3,arg4); } while (0)

#define CALL_FN_v_5W(fnptr, arg1,arg2,arg3,arg4,arg5) \
    do { volatile unsigned long _junk; \
        CALL_FN_W_5W(_junk,fnptr,arg1,arg2,arg3,arg4,arg5); } while (0)

```

```

#define CALL_FN_v_6W(fnptr, arg1,arg2,arg3,arg4,arg5,arg6) \
do { volatile unsigned long _junk; \
CALL_FN_W_6W(_junk,fnptr,arg1,arg2,arg3,arg4,arg5,arg6); } while (0)

#define CALL_FN_v_7W(fnptr, arg1,arg2,arg3,arg4,arg5,arg6,arg7) \
do { volatile unsigned long _junk; \
CALL_FN_W_7W(_junk,fnptr,arg1,arg2,arg3,arg4,arg5,arg6,arg7); } while (0)

/* ----- x86-{linux,darwin} ----- */

#if defined(PLAT_x86_linux) || defined(PLAT_x86_darwin)

/* These regs are trashed by the hidden call. No need to mention eax
as gcc can already see that, plus causes gcc to bomb. */
#define __CALLER_SAVED_REGS /*"eax"*/ "ecx", "edx"

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made
to other functions. */

#define VALGRIND_ALIGN_STACK \
"movl %%esp,%%edi\n\t" \
"andl $0xffffffff,%%esp\n\t"
#define VALGRIND_RESTORE_STACK \
"movl %%edi,%%esp\n\t"

/* These CALL_FN_ macros assume that on x86-linux, sizeof(unsigned
long) == 4. */

#define CALL_FN_W_v(lval, orig) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[1]; \
volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nraddr; \
__asm__ volatile( \
VALGRIND_ALIGN_STACK \
"movl (%%eax), %%eax\n\t" /* target->eax */ \
VALGRIND_CALL_NOREDIR_EAX \
VALGRIND_RESTORE_STACK \
:/*out*/ "=a" (_res) \
:/*in*/ "a" (&_argvec[0]) \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

```



```

#define CALL_FN_W_W(lval, orig, arg1) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[2]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "subl $12, %%esp\n\t" \
        "pushl 4(%%eax)\n\t" \
        "movl (%%eax), %%eax\n\t" /* target->eax */ \
        VALGRIND_CALL_NOREDIR_EAX \
        VALGRIND_RESTORE_STACK \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1,arg2) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[3]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "subl $8, %%esp\n\t" \
        "pushl 8(%%eax)\n\t" \
        "pushl 4(%%eax)\n\t" \
        "movl (%%eax), %%eax\n\t" /* target->eax */ \
        VALGRIND_CALL_NOREDIR_EAX \
        VALGRIND_RESTORE_STACK \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[4]; \

```

```

volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradrr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "subl $4, %%esp\n\t"
    "pushl 12(%%eax)\n\t"
    "pushl 8(%%eax)\n\t"
    "pushl 4(%%eax)\n\t"
    "movl (%%eax), %%eax\n\t" /* target->eax */
    VALGRIND_CALL_NOREDIR_EAX
    VALGRIND_RESTORE_STACK
    :/*out*/ "=a" (_res)
    :/*in*/ "a" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[5];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradrr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "pushl 16(%%eax)\n\t"
        "pushl 12(%%eax)\n\t"
        "pushl 8(%%eax)\n\t"
        "pushl 4(%%eax)\n\t"
        "movl (%%eax), %%eax\n\t" /* target->eax */
        VALGRIND_CALL_NOREDIR_EAX
        VALGRIND_RESTORE_STACK
        :/*out*/ "=a" (_res)
        :/*in*/ "a" (&_argvec[0])
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[6];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "subl $12, %%esp\n\t"
        "pushl 20(%%eax)\n\t"
        "pushl 16(%%eax)\n\t"
        "pushl 12(%%eax)\n\t"
        "pushl 8(%%eax)\n\t"
        "pushl 4(%%eax)\n\t"
        "movl (%%eax), %%eax\n\t" /* target->eax */
        VALGRIND_CALL_NOREDIR_EAX
        VALGRIND_RESTORE_STACK
        :/*out*/ "=a" (_res)
        :/*in*/ "a" (&_argvec[0])
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[7];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "subl $8, %%esp\n\t"
        "pushl 24(%%eax)\n\t"
        "pushl 20(%%eax)\n\t"
        "pushl 16(%%eax)\n\t"
        "pushl 12(%%eax)\n\t"
        "pushl 8(%%eax)\n\t"

```

```

    "pushl 4(%%eax)\n\t"
    "movl (%%eax), %%eax\n\t" /* target->eax */
    VALGRIND_CALL_NOREDIR_EAX
    VALGRIND_RESTORE_STACK
    /*out*/ "a" (_res)
    /*in*/ "a" (&_argvec[0])
    /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[8];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "subl $4, %%esp\n\t"
        "pushl 28(%%eax)\n\t"
        "pushl 24(%%eax)\n\t"
        "pushl 20(%%eax)\n\t"
        "pushl 16(%%eax)\n\t"
        "pushl 12(%%eax)\n\t"
        "pushl 8(%%eax)\n\t"
        "pushl 4(%%eax)\n\t"
        "movl (%%eax), %%eax\n\t" /* target->eax */
        VALGRIND_CALL_NOREDIR_EAX
        VALGRIND_RESTORE_STACK
        /*out*/ "a" (_res)
        /*in*/ "a" (&_argvec[0])
        /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8)
do {

```

```

volatile OrigFn    _orig = (orig);           \
volatile unsigned long _argvec[9];           \
volatile unsigned long _res;                 \
_argvec[0] = (unsigned long)_orig.nraddr;    \
_argvec[1] = (unsigned long)(arg1);          \
_argvec[2] = (unsigned long)(arg2);          \
_argvec[3] = (unsigned long)(arg3);          \
_argvec[4] = (unsigned long)(arg4);          \
_argvec[5] = (unsigned long)(arg5);          \
_argvec[6] = (unsigned long)(arg6);          \
_argvec[7] = (unsigned long)(arg7);          \
_argvec[8] = (unsigned long)(arg8);          \
__asm__ volatile(                             \
    VALGRIND_ALIGN_STACK                       \
    "pushl 32(%%eax)\n\t"                       \
    "pushl 28(%%eax)\n\t"                       \
    "pushl 24(%%eax)\n\t"                       \
    "pushl 20(%%eax)\n\t"                       \
    "pushl 16(%%eax)\n\t"                       \
    "pushl 12(%%eax)\n\t"                       \
    "pushl 8(%%eax)\n\t"                        \
    "pushl 4(%%eax)\n\t"                        \
    "movl (%%eax), %%eax\n\t" /* target->eax */   \
    VALGRIND_CALL_NOREDIR_EAX                   \
    VALGRIND_RESTORE_STACK                       \
    :/*out*/ "=a" (_res)                         \
    :/*in*/ "a" (&_argvec[0])                   \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[10]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9);

```

```

__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "subl $12, %%esp\n\t"
    "pushl 36(%%eax)\n\t"
    "pushl 32(%%eax)\n\t"
    "pushl 28(%%eax)\n\t"
    "pushl 24(%%eax)\n\t"
    "pushl 20(%%eax)\n\t"
    "pushl 16(%%eax)\n\t"
    "pushl 12(%%eax)\n\t"
    "pushl 8(%%eax)\n\t"
    "pushl 4(%%eax)\n\t"
    "movl (%%eax), %%eax\n\t" /* target->eax */
    VALGRIND_CALL_NOREDIR_EAX
    VALGRIND_RESTORE_STACK
    :/*out*/ "=a" (_res)
    :/*in*/ "a" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[11];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    _argvec[9] = (unsigned long)(arg9);
    _argvec[10] = (unsigned long)(arg10);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "subl $8, %%esp\n\t"
        "pushl 40(%%eax)\n\t"
        "pushl 36(%%eax)\n\t"
        "pushl 32(%%eax)\n\t"
        "pushl 28(%%eax)\n\t"
        "pushl 24(%%eax)\n\t"
        "pushl 20(%%eax)\n\t"

```

```

"pushl 16(%%eax)\n\t"           \
"pushl 12(%%eax)\n\t"           \
"pushl 8(%%eax)\n\t"            \
"pushl 4(%%eax)\n\t"            \
"movl (%%eax), %%eax\n\t" /* target->eax */ \
VALGRIND_CALL_NOREDIR_EAX      \
VALGRIND_RESTORE_STACK        \
:/*out*/ "=a" (_res)           \
:/*in*/ "a" (&_argvec[0])     \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
);                               \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
                    arg6,arg7,arg8,arg9,arg10, \
                    arg11) \

```

```

do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[12]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    _argvec[11] = (unsigned long)(arg11); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "subl $4, %%esp\n\t" \
        "pushl 44(%%eax)\n\t" \
        "pushl 40(%%eax)\n\t" \
        "pushl 36(%%eax)\n\t" \
        "pushl 32(%%eax)\n\t" \
        "pushl 28(%%eax)\n\t" \
        "pushl 24(%%eax)\n\t" \
        "pushl 20(%%eax)\n\t" \
        "pushl 16(%%eax)\n\t" \
        "pushl 12(%%eax)\n\t" \
        "pushl 8(%%eax)\n\t" \
        "pushl 4(%%eax)\n\t" \
        "movl (%%eax), %%eax\n\t" /* target->eax */ \

```

```

    VALGRIND_CALL_NOREDIR_EAX
    VALGRIND_RESTORE_STACK
    /*out*/ "a" (_res)
    /*in*/ "a" (&_argvec[0])
    /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,
    arg6,arg7,arg8,arg9,arg10,
    arg11,arg12)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[13];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    _argvec[9] = (unsigned long)(arg9);
    _argvec[10] = (unsigned long)(arg10);
    _argvec[11] = (unsigned long)(arg11);
    _argvec[12] = (unsigned long)(arg12);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "pushl 48(%%eax)\n\t"
        "pushl 44(%%eax)\n\t"
        "pushl 40(%%eax)\n\t"
        "pushl 36(%%eax)\n\t"
        "pushl 32(%%eax)\n\t"
        "pushl 28(%%eax)\n\t"
        "pushl 24(%%eax)\n\t"
        "pushl 20(%%eax)\n\t"
        "pushl 16(%%eax)\n\t"
        "pushl 12(%%eax)\n\t"
        "pushl 8(%%eax)\n\t"
        "pushl 4(%%eax)\n\t"
        "movl (%%eax), %%eax\n\t" /* target->eax */
        VALGRIND_CALL_NOREDIR_EAX
        VALGRIND_RESTORE_STACK
        /*out*/ "a" (_res)
        /*in*/ "a" (&_argvec[0])
    )
} while (0)

```



```

        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "edi" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_x86_linux || PLAT_x86_darwin */

/* ----- amd64- {linux,darwin} ----- */

#if defined(PLAT_amd64_linux) || defined(PLAT_amd64_darwin)

/* ARGREGS: rdi rsi rdx rcx r8 r9 (the rest on stack in R-to-L order) */

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS /*"rax",*/ "rcx", "rdx", "rsi", \
    "rdi", "r8", "r9", "r10", "r11"

```

/\* This is all pretty complex. It's so as to make stack unwinding work reliably. See bug 243270. The basic problem is the sub and add of 128 of %rsp in all of the following macros. If gcc believes the CFA is in %rsp, then unwinding may fail, because what's at the CFA is not what gcc "expected" when it constructs the CFIs for the places where the macros are instantiated.

But we can't just add a CFI annotation to increase the CFA offset by 128, to match the sub of 128 from %rsp, because we don't know whether gcc has chosen %rsp as the CFA at that point, or whether it has chosen some other register (eg, %rbp). In the latter case, adding a CFI annotation to change the CFA offset is simply wrong.

So the solution is to get hold of the CFA using `__builtin_dwarf_cfa()`, put it in a known register, and add a CFI annotation to say what the register is. We choose %rbp for this (perhaps perversely), because:

- (1) %rbp is already subject to unwinding. If a new register was chosen then the unwinder would have to unwind it in all stack traces, which is expensive, and
- (2) %rbp is already subject to precise exception updates in the JIT. If a new register was chosen, we'd have to have precise exceptions for it too, which reduces performance of the generated code.

However .. one extra complication. We can't just whack the result of `__builtin_dwarf_cfa()` into %rbp and then add %rbp to the list of trashed registers at the end of the inline assembly fragments; gcc won't allow %rbp to appear in that list. Hence

instead we need to stash %rbp in %r15 for the duration of the asm, and say that %r15 is trashed instead. gcc seems happy to go with that.

Oh .. and this all needs to be conditionalised so that it is unchanged from before this commit, when compiled with older gccs that don't support \_\_builtin\_dwarf\_cfa. Furthermore, since this header file is freestanding, it has to be independent of config.h, and so the following conditionalisation cannot depend on configure time checks.

Although it's not clear from 'defined(\_\_GNUCC\_\_) && defined(\_\_GCC\_HAVE\_DWARF2\_CFI\_ASM)', this expression excludes Darwin. .cfa directives in Darwin assembly appear to be completely different and I haven't investigated how they work.

For even more entertainment value, note we have to use the completely undocumented \_\_builtin\_dwarf\_cfa(), which appears to really compute the CFA, whereas \_\_builtin\_frame\_address(0) claims to but actually doesn't. See

[https://bugs.kde.org/show\\_bug.cgi?id=243270#c47](https://bugs.kde.org/show_bug.cgi?id=243270#c47)

```
*/
#if defined(__GNUCC__) && defined(__GCC_HAVE_DWARF2_CFI_ASM)
# define __FRAME_POINTER          \
    , "r"(__builtin_dwarf_cfa())
# define VALGRIND_CFI_PROLOGUE    \
    "movq %%rbp, %%r15\n\t"      \
    "movq %2, %%rbp\n\t"        \
    ".cfa_remember_state\n\t"   \
    ".cfa_def_cfa rbp, 0\n\t"
# define VALGRIND_CFI_EPILOGUE    \
    "movq %%r15, %%rbp\n\t"     \
    ".cfa_restore_state\n\t"
#else
# define __FRAME_POINTER
# define VALGRIND_CFI_PROLOGUE
# define VALGRIND_CFI_EPILOGUE
#endif

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made
to other functions. */

#define VALGRIND_ALIGN_STACK      \
    "movq %%rsp, %%r14\n\t"      \
    "andq $0xfffffffffffffff0, %%rsp\n\t"
```

```
#define VALGRIND_RESTORE_STACK \
    "movq %%r14,%%rsp\n\t"

/* These CALL_FN_ macros assume that on amd64-linux, sizeof(unsigned
long) == 8. */
```

/\* NB 9 Sept 07. There is a nasty kludge here in all these CALL\_FN\_ macros. In order not to trash the stack redzone, we need to drop %rsp by 128 before the hidden call, and restore afterwards. The nastyness is that it is only by luck that the stack still appears to be unwindable during the hidden call - since then the behaviour of any routine using this macro does not match what the CFI data says. Sigh.

Why is this important? Imagine that a wrapper has a stack allocated local, and passes to the hidden call, a pointer to it. Because gcc does not know about the hidden call, it may allocate that local in the redzone. Unfortunately the hidden call may then trash it before it comes to use it. So we must step clear of the redzone, for the duration of the hidden call, to make it safe.

Probably the same problem afflicts the other redzone-style ABIs too (ppc64-linux); but for those, the stack is self describing (none of this CFI nonsense) so at least messing with the stack pointer doesn't give a danger of non-unwindable stack. \*/

```
#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[1]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $128,%%rsp\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->%rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
        VALGRIND_CFI_EPILOGUE \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)
```

```

#define CALL_FN_W_W(lval, orig, arg1) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[2]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $128,%%rsp\n\t" \
        "movq 8(%%rax), %%rdi\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
        VALGRIND_CFI_EPILOGUE \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1,arg2) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[3]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $128,%%rsp\n\t" \
        "movq 16(%%rax), %%rsi\n\t" \
        "movq 8(%%rax), %%rdi\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
        VALGRIND_CFI_EPILOGUE \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[4]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $128,%%rsp\n\t" \
        "movq 24(%%rax), %%rdx\n\t" \
        "movq 16(%%rax), %%rsi\n\t" \
        "movq 8(%%rax), %%rdi\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
        VALGRIND_CFI_EPILOGUE \
        : /*out*/ "=a" (_res) \
        : /*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[5]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $128,%%rsp\n\t" \
        "movq 32(%%rax), %%rcx\n\t" \
        "movq 24(%%rax), %%rdx\n\t" \
        "movq 16(%%rax), %%rsi\n\t" \
        "movq 8(%%rax), %%rdi\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
    ); \
} while (0)

```

```

VALGRIND_CFI_EPILOGUE
: /*out*/ "a" (_res)
: /*in*/ "a" (&_argvec[0]) __FRAME_POINTER
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[6];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
VALGRIND_ALIGN_STACK
"subq $128,%%rsp\n\t"
"movq 40(%%rax), %%r8\n\t"
"movq 32(%%rax), %%rcx\n\t"
"movq 24(%%rax), %%rdx\n\t"
"movq 16(%%rax), %%rsi\n\t"
"movq 8(%%rax), %%rdi\n\t"
"movq (%%rax), %%rax\n\t" /* target->rax */
VALGRIND_CALL_NOREDIR_RAX
VALGRIND_RESTORE_STACK
VALGRIND_CFI_EPILOGUE
: /*out*/ "a" (_res)
: /*in*/ "a" (&_argvec[0]) __FRAME_POINTER
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[7];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);

```

```

_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
__asm__ volatile(
    VALGRIND_CFI_PROLOGUE
    VALGRIND_ALIGN_STACK
    "subq $128,%%rsp\n\t"
    "movq 48(%%rax), %%r9\n\t"
    "movq 40(%%rax), %%r8\n\t"
    "movq 32(%%rax), %%rcx\n\t"
    "movq 24(%%rax), %%rdx\n\t"
    "movq 16(%%rax), %%rsi\n\t"
    "movq 8(%%rax), %%rdi\n\t"
    "movq (%%rax), %%rax\n\t" /* target->rax */
    VALGRIND_CALL_NOREDIR_RAX
    VALGRIND_RESTORE_STACK
    VALGRIND_CFI_EPILOGUE
    :/*out*/ "=a" (_res)
    :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6,
    arg7)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[8];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    __asm__ volatile(
        VALGRIND_CFI_PROLOGUE
        VALGRIND_ALIGN_STACK
        "subq $136,%%rsp\n\t"
        "pushq 56(%%rax)\n\t"
        "movq 48(%%rax), %%r9\n\t"
        "movq 40(%%rax), %%r8\n\t"
        "movq 32(%%rax), %%rcx\n\t"
        "movq 24(%%rax), %%rdx\n\t"
        "movq 16(%%rax), %%rsi\n\t"

```

```

"movq 8(%%rax), %%rdi\n\t"
"movq (%%rax), %%rax\n\t" /* target->rax */
VALGRIND_CALL_NOREDIR_RAX
VALGRIND_RESTORE_STACK
VALGRIND_CFI_EPILOGUE
:/*out*/ "=a" (_res)
:/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6,
                    arg7,arg8)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[9];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
VALGRIND_ALIGN_STACK
"subq $128,%%rsp\n\t"
"pushq 64(%%rax)\n\t"
"pushq 56(%%rax)\n\t"
"movq 48(%%rax), %%r9\n\t"
"movq 40(%%rax), %%r8\n\t"
"movq 32(%%rax), %%rcx\n\t"
"movq 24(%%rax), %%rdx\n\t"
"movq 16(%%rax), %%rsi\n\t"
"movq 8(%%rax), %%rdi\n\t"
"movq (%%rax), %%rax\n\t" /* target->rax */
VALGRIND_CALL_NOREDIR_RAX
VALGRIND_RESTORE_STACK
VALGRIND_CFI_EPILOGUE
:/*out*/ "=a" (_res)
:/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;

```



```

} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[10]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        VALGRIND_ALIGN_STACK \
        "subq $136,%%rsp\n\t" \
        "pushq 72(%%rax)\n\t" \
        "pushq 64(%%rax)\n\t" \
        "pushq 56(%%rax)\n\t" \
        "movq 48(%%rax), %%r9\n\t" \
        "movq 40(%%rax), %%r8\n\t" \
        "movq 32(%%rax), %%rcx\n\t" \
        "movq 24(%%rax), %%rdx\n\t" \
        "movq 16(%%rax), %%rsi\n\t" \
        "movq 8(%%rax), %%rdi\n\t" \
        "movq (%%rax), %%rax\n\t" /* target->rax */ \
        VALGRIND_CALL_NOREDIR_RAX \
        VALGRIND_RESTORE_STACK \
        VALGRIND_CFI_EPILOGUE \
        :/*out*/ "=a" (_res) \
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[11]; \
    volatile unsigned long _res; \

```

```

_argvec[0] = (unsigned long)_orig.nradrr; \
_argvec[1] = (unsigned long)(arg1); \
_argvec[2] = (unsigned long)(arg2); \
_argvec[3] = (unsigned long)(arg3); \
_argvec[4] = (unsigned long)(arg4); \
_argvec[5] = (unsigned long)(arg5); \
_argvec[6] = (unsigned long)(arg6); \
_argvec[7] = (unsigned long)(arg7); \
_argvec[8] = (unsigned long)(arg8); \
_argvec[9] = (unsigned long)(arg9); \
_argvec[10] = (unsigned long)(arg10); \
__asm__ volatile( \
    VALGRIND_CFI_PROLOGUE \
    VALGRIND_ALIGN_STACK \
    "subq $128,%%rsp\n\t" \
    "pushq 80(%%rax)\n\t" \
    "pushq 72(%%rax)\n\t" \
    "pushq 64(%%rax)\n\t" \
    "pushq 56(%%rax)\n\t" \
    "movq 48(%%rax), %%r9\n\t" \
    "movq 40(%%rax), %%r8\n\t" \
    "movq 32(%%rax), %%rcx\n\t" \
    "movq 24(%%rax), %%rdx\n\t" \
    "movq 16(%%rax), %%rsi\n\t" \
    "movq 8(%%rax), %%rdi\n\t" \
    "movq (%%rax), %%rax\n\t" /* target->rax */ \
    VALGRIND_CALL_NOREDIR_RAX \
    VALGRIND_RESTORE_STACK \
    VALGRIND_CFI_EPILOGUE \
    : /*out*/ "=a" (_res) \
    : /*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[12]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradrr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \

```

```

_argvec[6] = (unsigned long)(arg6);           \
_argvec[7] = (unsigned long)(arg7);           \
_argvec[8] = (unsigned long)(arg8);           \
_argvec[9] = (unsigned long)(arg9);           \
_argvec[10] = (unsigned long)(arg10);         \
_argvec[11] = (unsigned long)(arg11);         \
__asm__ volatile(                             \
    VALGRIND_CFI_PROLOGUE                       \
    VALGRIND_ALIGN_STACK                       \
    "subq $136,%%rsp\n\t"                       \
    "pushq 88(%%rax)\n\t"                       \
    "pushq 80(%%rax)\n\t"                       \
    "pushq 72(%%rax)\n\t"                       \
    "pushq 64(%%rax)\n\t"                       \
    "pushq 56(%%rax)\n\t"                       \
    "movq 48(%%rax), %%r9\n\t"                   \
    "movq 40(%%rax), %%r8\n\t"                   \
    "movq 32(%%rax), %%rcx\n\t"                 \
    "movq 24(%%rax), %%rdx\n\t"                 \
    "movq 16(%%rax), %%rsi\n\t"                 \
    "movq 8(%%rax), %%rdi\n\t"                  \
    "movq (%%rax), %%rax\n\t" /* target->rax */   \
    VALGRIND_CALL_NOREDIR_RAX                   \
    VALGRIND_RESTORE_STACK                     \
    VALGRIND_CFI_EPILOGUE                       \
    :/*out*/ "=a" (_res)                        \
    :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER  \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11,arg12) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[13]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \

```

```

_argvec[10] = (unsigned long)(arg10);
_argvec[11] = (unsigned long)(arg11);
_argvec[12] = (unsigned long)(arg12);
__asm__ volatile(
    VALGRIND_CFI_PROLOGUE
    VALGRIND_ALIGN_STACK
    "subq $128,%%rsp\n\t"
    "pushq 96(%%rax)\n\t"
    "pushq 88(%%rax)\n\t"
    "pushq 80(%%rax)\n\t"
    "pushq 72(%%rax)\n\t"
    "pushq 64(%%rax)\n\t"
    "pushq 56(%%rax)\n\t"
    "movq 48(%%rax), %%r9\n\t"
    "movq 40(%%rax), %%r8\n\t"
    "movq 32(%%rax), %%rcx\n\t"
    "movq 24(%%rax), %%rdx\n\t"
    "movq 16(%%rax), %%rsi\n\t"
    "movq 8(%%rax), %%rdi\n\t"
    "movq (%%rax), %%rax\n\t" /* target->%rax */
    VALGRIND_CALL_NOREDIR_RAX
    VALGRIND_RESTORE_STACK
    VALGRIND_CFI_EPILOGUE
    :/*out*/ "=a" (_res)
    :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r14", "r15" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#endif /* PLAT_amd64_linux || PLAT_amd64_darwin */

```

```

/* ----- ppc32-linux ----- */

```

```

#if defined(PLAT_ppc32_linux)

```

```

/* This is useful for finding out about the on-stack stuff:

```

```

extern int f9 ( int,int,int,int,int,int,int,int,int );
extern int f10 ( int,int,int,int,int,int,int,int,int,int );
extern int f11 ( int,int,int,int,int,int,int,int,int,int,int );
extern int f12 ( int,int,int,int,int,int,int,int,int,int,int,int );

```

```

int g9 ( void ) {
    return f9(11,22,33,44,55,66,77,88,99);
}
int g10 ( void ) {
    return f10(11,22,33,44,55,66,77,88,99,110);
}

```

```

}
int g11 ( void ) {
    return f11(11,22,33,44,55,66,77,88,99,110,121);
}
int g12 ( void ) {
    return f12(11,22,33,44,55,66,77,88,99,110,121,132);
}
*/

/* ARGREGS: r3 r4 r5 r6 r7 r8 r9 r10 (the rest on stack somewhere) */

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS \
    "lr", "ctr", "xer", \
    "cr0", "cr1", "cr2", "cr3", "cr4", "cr5", "cr6", "cr7", \
    "r0", "r2", "r3", "r4", "r5", "r6", "r7", "r8", "r9", "r10", \
    "r11", "r12", "r13"

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made
to other functions. */

#define VALGRIND_ALIGN_STACK \
    "mr 28,1\n\t" \
    "rlwinm 1,1,0,0,27\n\t"
#define VALGRIND_RESTORE_STACK \
    "mr 1,28\n\t"

/* These CALL_FN_ macros assume that on ppc32-linux,
sizeof(unsigned long) == 4. */

#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[1]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradr; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "lwz 11,0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
        VALGRIND_RESTORE_STACK \
        "mr %0,3" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "r" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \

```

```

);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_W(lval, orig, arg1)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[2];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 11,%1\n\t"
    "lwx 3,4(11)\n\t" /* arg1->r3 */
    "lwx 11,0(11)\n\t" /* target->r11 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
    VALGRIND_RESTORE_STACK
    "mr %0,3"
    :/*out*/ "=r" (_res)
    :/*in*/ "r" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WW(lval, orig, arg1,arg2)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[3];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 11,%1\n\t"
    "lwx 3,4(11)\n\t" /* arg1->r3 */
    "lwx 4,8(11)\n\t"
    "lwx 11,0(11)\n\t" /* target->r11 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
    VALGRIND_RESTORE_STACK
    "mr %0,3"
    :/*out*/ "=r" (_res)
    :/*in*/ "r" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
);
lval = (__typeof__(lval)) _res;

```

```

} while (0)

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[4]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradrr; \
    _argvec[1] = (unsigned long)arg1; \
    _argvec[2] = (unsigned long)arg2; \
    _argvec[3] = (unsigned long)arg3; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "l wz 3,4(11)\n\t" /* arg1->r3 */ \
        "l wz 4,8(11)\n\t" \
        "l wz 5,12(11)\n\t" \
        "l wz 11,0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
        VALGRIND_RESTORE_STACK \
        "mr %0,3" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "r" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[5]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradrr; \
    _argvec[1] = (unsigned long)arg1; \
    _argvec[2] = (unsigned long)arg2; \
    _argvec[3] = (unsigned long)arg3; \
    _argvec[4] = (unsigned long)arg4; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "l wz 3,4(11)\n\t" /* arg1->r3 */ \
        "l wz 4,8(11)\n\t" \
        "l wz 5,12(11)\n\t" \
        "l wz 6,16(11)\n\t" /* arg4->r6 */ \
        "l wz 11,0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
        VALGRIND_RESTORE_STACK \

```

```

    "mr %0,3"
    : /*out*/ "=r" (_res)
    : /*in*/ "r" (&_argvec[0])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg5) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[6];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "lwx 3,4(11)\n\t" /* arg1->r3 */
        "lwx 4,8(11)\n\t"
        "lwx 5,12(11)\n\t"
        "lwx 6,16(11)\n\t" /* arg4->r6 */
        "lwx 7,20(11)\n\t"
        "lwx 11,0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
        VALGRIND_RESTORE_STACK
        "mr %0,3"
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[0])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[7];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;

```



```

_argvec[5] = (unsigned long)arg5;          \
_argvec[6] = (unsigned long)arg6;          \
__asm__ volatile(                          \
    VALGRIND_ALIGN_STACK                    \
    "mr 11,%1\n\t"                          \
    "lwz 3,4(11)\n\t" /* arg1->r3 */        \
    "lwz 4,8(11)\n\t"                          \
    "lwz 5,12(11)\n\t"                       \
    "lwz 6,16(11)\n\t" /* arg4->r6 */        \
    "lwz 7,20(11)\n\t"                       \
    "lwz 8,24(11)\n\t"                       \
    "lwz 11,0(11)\n\t" /* target->r11 */     \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    VALGRIND_RESTORE_STACK                  \
    "mr %0,3"                                \
    : /*out*/ "=r" (_res)                    \
    : /*in*/ "r" (&_argvec[0])              \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[8]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)arg1; \
    _argvec[2] = (unsigned long)arg2; \
    _argvec[3] = (unsigned long)arg3; \
    _argvec[4] = (unsigned long)arg4; \
    _argvec[5] = (unsigned long)arg5; \
    _argvec[6] = (unsigned long)arg6; \
    _argvec[7] = (unsigned long)arg7; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "lwz 3,4(11)\n\t" /* arg1->r3 */ \
        "lwz 4,8(11)\n\t" \
        "lwz 5,12(11)\n\t" \
        "lwz 6,16(11)\n\t" /* arg4->r6 */ \
        "lwz 7,20(11)\n\t" \
        "lwz 8,24(11)\n\t" \
        "lwz 9,28(11)\n\t" \
        "lwz 11,0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    )

```

```

    VALGRIND_RESTORE_STACK
    "mr %0,3"
    :/*out*/ "=r" (_res)
    :/*in*/ "r" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[9];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;
    _argvec[6] = (unsigned long)arg6;
    _argvec[7] = (unsigned long)arg7;
    _argvec[8] = (unsigned long)arg8;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "lwx 3,4(11)\n\t" /* arg1->r3 */
        "lwx 4,8(11)\n\t"
        "lwx 5,12(11)\n\t"
        "lwx 6,16(11)\n\t" /* arg4->r6 */
        "lwx 7,20(11)\n\t"
        "lwx 8,24(11)\n\t"
        "lwx 9,28(11)\n\t"
        "lwx 10,32(11)\n\t" /* arg8->r10 */
        "lwx 11,0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
        VALGRIND_RESTORE_STACK
        "mr %0,3"
        :/*out*/ "=r" (_res)
        :/*in*/ "r" (&_argvec[0])
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[10];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;
    _argvec[6] = (unsigned long)arg6;
    _argvec[7] = (unsigned long)arg7;
    _argvec[8] = (unsigned long)arg8;
    _argvec[9] = (unsigned long)arg9;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "addi 1,1,-16\n\t"
        /* arg9 */
        "lwz 3,36(11)\n\t"
        "stw 3,8(1)\n\t"
        /* args1-8 */
        "lwz 3,4(11)\n\t" /* arg1->r3 */
        "lwz 4,8(11)\n\t"
        "lwz 5,12(11)\n\t"
        "lwz 6,16(11)\n\t" /* arg4->r6 */
        "lwz 7,20(11)\n\t"
        "lwz 8,24(11)\n\t"
        "lwz 9,28(11)\n\t"
        "lwz 10,32(11)\n\t" /* arg8->r10 */
        "lwz 11,0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOEDIR_R11
        VALGRIND_RESTORE_STACK
        "mr %0,3"
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[0])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[11];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;

```

```

_argvec[1] = (unsigned long)arg1;          \
_argvec[2] = (unsigned long)arg2;          \
_argvec[3] = (unsigned long)arg3;          \
_argvec[4] = (unsigned long)arg4;          \
_argvec[5] = (unsigned long)arg5;          \
_argvec[6] = (unsigned long)arg6;          \
_argvec[7] = (unsigned long)arg7;          \
_argvec[8] = (unsigned long)arg8;          \
_argvec[9] = (unsigned long)arg9;          \
_argvec[10] = (unsigned long)arg10;         \
__asm__ volatile(                          \
    VALGRIND_ALIGN_STACK                    \
    "mr 11,%1\n\t"                          \
    "addi 1,1,-16\n\t"                       \
    /* arg10 */                              \
    "lwz 3,40(11)\n\t"                       \
    "stw 3,12(1)\n\t"                        \
    /* arg9 */                              \
    "lwz 3,36(11)\n\t"                       \
    "stw 3,8(1)\n\t"                         \
    /* args1-8 */                            \
    "lwz 3,4(11)\n\t" /* arg1->r3 */          \
    "lwz 4,8(11)\n\t"                       \
    "lwz 5,12(11)\n\t"                      \
    "lwz 6,16(11)\n\t" /* arg4->r6 */        \
    "lwz 7,20(11)\n\t"                      \
    "lwz 8,24(11)\n\t"                      \
    "lwz 9,28(11)\n\t"                      \
    "lwz 10,32(11)\n\t" /* arg8->r10 */      \
    "lwz 11,0(11)\n\t" /* target->r11 */     \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    VALGRIND_RESTORE_STACK                  \
    "mr %0,3"                                \
    : /*out*/ "=r" (_res)                   \
    : /*in*/ "r" (&_argvec[0])             \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[12];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;

```

```

_argvec[2] = (unsigned long)arg2;          \
_argvec[3] = (unsigned long)arg3;          \
_argvec[4] = (unsigned long)arg4;          \
_argvec[5] = (unsigned long)arg5;          \
_argvec[6] = (unsigned long)arg6;          \
_argvec[7] = (unsigned long)arg7;          \
_argvec[8] = (unsigned long)arg8;          \
_argvec[9] = (unsigned long)arg9;          \
_argvec[10] = (unsigned long)arg10;         \
_argvec[11] = (unsigned long)arg11;         \
__asm__ volatile(                          \
    VALGRIND_ALIGN_STACK                    \
    "mr 11,%1\n\t"                          \
    "addi 1,1,-32\n\t"                       \
    /* arg11 */                              \
    "lwz 3,44(11)\n\t"                       \
    "stw 3,16(1)\n\t"                       \
    /* arg10 */                              \
    "lwz 3,40(11)\n\t"                       \
    "stw 3,12(1)\n\t"                       \
    /* arg9 */                               \
    "lwz 3,36(11)\n\t"                      \
    "stw 3,8(1)\n\t"                        \
    /* args1-8 */                            \
    "lwz 3,4(11)\n\t" /* arg1->r3 */         \
    "lwz 4,8(11)\n\t"                       \
    "lwz 5,12(11)\n\t"                     \
    "lwz 6,16(11)\n\t" /* arg4->r6 */       \
    "lwz 7,20(11)\n\t"                     \
    "lwz 8,24(11)\n\t"                     \
    "lwz 9,28(11)\n\t"                     \
    "lwz 10,32(11)\n\t" /* arg8->r10 */     \
    "lwz 11,0(11)\n\t" /* target->r11 */    \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    VALGRIND_RESTORE_STACK                 \
    "mr %0,3"                               \
    : /*out*/ "=r" (_res)                   \
    : /*in*/ "r" (&_argvec[0])            \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11,arg12) \
do {
    volatile OrigFn  _orig = (orig);
    volatile unsigned long _argvec[13];

```

```

volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nradrr; \
_argvec[1] = (unsigned long)arg1; \
_argvec[2] = (unsigned long)arg2; \
_argvec[3] = (unsigned long)arg3; \
_argvec[4] = (unsigned long)arg4; \
_argvec[5] = (unsigned long)arg5; \
_argvec[6] = (unsigned long)arg6; \
_argvec[7] = (unsigned long)arg7; \
_argvec[8] = (unsigned long)arg8; \
_argvec[9] = (unsigned long)arg9; \
_argvec[10] = (unsigned long)arg10; \
_argvec[11] = (unsigned long)arg11; \
_argvec[12] = (unsigned long)arg12; \
__asm__ volatile( \
    VALGRIND_ALIGN_STACK \
    "mr 11,%1\n\t" \
    "addi 1,1,-32\n\t" \
    /* arg12 */ \
    "lwz 3,48(11)\n\t" \
    "stw 3,20(1)\n\t" \
    /* arg11 */ \
    "lwz 3,44(11)\n\t" \
    "stw 3,16(1)\n\t" \
    /* arg10 */ \
    "lwz 3,40(11)\n\t" \
    "stw 3,12(1)\n\t" \
    /* arg9 */ \
    "lwz 3,36(11)\n\t" \
    "stw 3,8(1)\n\t" \
    /* args1-8 */ \
    "lwz 3,4(11)\n\t" /* arg1->r3 */ \
    "lwz 4,8(11)\n\t" \
    "lwz 5,12(11)\n\t" \
    "lwz 6,16(11)\n\t" /* arg4->r6 */ \
    "lwz 7,20(11)\n\t" \
    "lwz 8,24(11)\n\t" \
    "lwz 9,28(11)\n\t" \
    "lwz 10,32(11)\n\t" /* arg8->r10 */ \
    "lwz 11,0(11)\n\t" /* target->r11 */ \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
    VALGRIND_RESTORE_STACK \
    "mr %0,3" \
    :/*out*/ "=r" (_res) \
    :/*in*/ "r" (&_argvec[0]) \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
); \
lval = (__typeof__(lval)) _res; \

```

```

} while (0)

#endif /* PLAT_ppc32_linux */

/* ----- ppc64-linux ----- */

#if defined(PLAT_ppc64be_linux)

/* ARGREGS: r3 r4 r5 r6 r7 r8 r9 r10 (the rest on stack somewhere) */

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS \
    "lr", "ctr", "xer", \
    "cr0", "cr1", "cr2", "cr3", "cr4", "cr5", "cr6", "cr7", \
    "r0", "r2", "r3", "r4", "r5", "r6", "r7", "r8", "r9", "r10", \
    "r11", "r12", "r13"

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made
to other functions. */

#define VALGRIND_ALIGN_STACK \
    "mr 28,1\n\t" \
    "rldicr 1,1,0,59\n\t"
#define VALGRIND_RESTORE_STACK \
    "mr 1,28\n\t"

/* These CALL_FN_ macros assume that on ppc64-linux, sizeof(unsigned
long) == 8. */

#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[3+0]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nraddr; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "std 2,-16(11)\n\t" /* save tocptr */ \
        "ld 2,-8(11)\n\t" /* use nraddr's tocptr */ \
        "ld 11,0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
        "mr 11,%1\n\t" \
        "mr %0,3\n\t" \

```

```

        "ld 2,-16(11)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_W(lval, orig, arg1)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3+1];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "std 2,-16(11)\n\t" /* save tocptr */
        "ld 2,-8(11)\n\t" /* use nraddr's tocptr */
        "ld 3,8(11)\n\t" /* arg1->r3 */
        "ld 11,0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
        "mr 11,%1\n\t"
        "mr %0,3\n\t"
        "ld 2,-16(11)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WW(lval, orig, arg1,arg2)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3+2];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    __asm__ volatile(

```



```

VALGRIND_ALIGN_STACK
"mr 11,%1\n\t"
"std 2,-16(11)\n\t" /* save tocptr */
"ld 2,-8(11)\n\t" /* use nraddr's tocptr */
"ld 3, 8(11)\n\t" /* arg1->r3 */
"ld 4, 16(11)\n\t" /* arg2->r4 */
"ld 11, 0(11)\n\t" /* target->r11 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
"mr 11,%1\n\t"
"mr %0,3\n\t"
"ld 2,-16(11)\n\t" /* restore tocptr */
VALGRIND_RESTORE_STACK
:/*out*/ "=r" (_res)
:/*in*/ "r" (&_argvec[2])
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[3+3];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
__asm__ volatile(
VALGRIND_ALIGN_STACK
"mr 11,%1\n\t"
"std 2,-16(11)\n\t" /* save tocptr */
"ld 2,-8(11)\n\t" /* use nraddr's tocptr */
"ld 3, 8(11)\n\t" /* arg1->r3 */
"ld 4, 16(11)\n\t" /* arg2->r4 */
"ld 5, 24(11)\n\t" /* arg3->r5 */
"ld 11, 0(11)\n\t" /* target->r11 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
"mr 11,%1\n\t"
"mr %0,3\n\t"
"ld 2,-16(11)\n\t" /* restore tocptr */
VALGRIND_RESTORE_STACK
:/*out*/ "=r" (_res)
:/*in*/ "r" (&_argvec[2])
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
);

```

```

    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+4];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "std 2,-16(11)\n\t" /* save tocptr */
        "ld  2,-8(11)\n\t" /* use nraddr's tocptr */
        "ld  3, 8(11)\n\t" /* arg1->r3 */
        "ld  4, 16(11)\n\t" /* arg2->r4 */
        "ld  5, 24(11)\n\t" /* arg3->r5 */
        "ld  6, 32(11)\n\t" /* arg4->r6 */
        "ld 11, 0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
        "mr 11,%1\n\t"
        "mr %0,3\n\t"
        "ld 2,-16(11)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+5];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;

```

```

_argvec[2+4] = (unsigned long)arg4;          \
_argvec[2+5] = (unsigned long)arg5;          \
__asm__ volatile(                            \
    VALGRIND_ALIGN_STACK                      \
    "mr 11,%1\n\t"                            \
    "std 2,-16(11)\n\t" /* save tocptr */      \
    "ld  2,-8(11)\n\t" /* use nraddr's tocptr */ \
    "ld  3, 8(11)\n\t" /* arg1->r3 */          \
    "ld  4, 16(11)\n\t" /* arg2->r4 */          \
    "ld  5, 24(11)\n\t" /* arg3->r5 */          \
    "ld  6, 32(11)\n\t" /* arg4->r6 */          \
    "ld  7, 40(11)\n\t" /* arg5->r7 */          \
    "ld 11, 0(11)\n\t" /* target->r11 */        \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11   \
    "mr 11,%1\n\t"                            \
    "mr %0,3\n\t"                            \
    "ld 2,-16(11)\n\t" /* restore tocptr */    \
    VALGRIND_RESTORE_STACK                    \
    : /*out*/ "=r" (_res)                      \
    : /*in*/ "r" (&_argvec[2])                \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+6];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    _argvec[2+5] = (unsigned long)arg5;
    _argvec[2+6] = (unsigned long)arg6;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "std 2,-16(11)\n\t" /* save tocptr */
        "ld  2,-8(11)\n\t" /* use nraddr's tocptr */
        "ld  3, 8(11)\n\t" /* arg1->r3 */
        "ld  4, 16(11)\n\t" /* arg2->r4 */
        "ld  5, 24(11)\n\t" /* arg3->r5 */
        "ld  6, 32(11)\n\t" /* arg4->r6 */

```

```

"ld 7, 40(11)\n\t" /* arg5->r7 */      \
"ld 8, 48(11)\n\t" /* arg6->r8 */      \
"ld 11, 0(11)\n\t" /* target->r11 */    \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
"mr 11,%1\n\t"                          \
"mr %0,3\n\t"                            \
"ld 2,-16(11)\n\t" /* restore tocptr */ \
VALGRIND_RESTORE_STACK                   \
: /*out*/ "=r" (_res)                    \
: /*in*/ "r" (&_argvec[2])              \
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);                                         \
lval = (__typeof__(lval)) _res;          \
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7) \

```

```

do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[3+7]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nraddr; \
    _argvec[2+1] = (unsigned long)arg1; \
    _argvec[2+2] = (unsigned long)arg2; \
    _argvec[2+3] = (unsigned long)arg3; \
    _argvec[2+4] = (unsigned long)arg4; \
    _argvec[2+5] = (unsigned long)arg5; \
    _argvec[2+6] = (unsigned long)arg6; \
    _argvec[2+7] = (unsigned long)arg7; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 11,%1\n\t" \
        "std 2,-16(11)\n\t" /* save tocptr */ \
        "ld 2,-8(11)\n\t" /* use nraddr's tocptr */ \
        "ld 3, 8(11)\n\t" /* arg1->r3 */ \
        "ld 4, 16(11)\n\t" /* arg2->r4 */ \
        "ld 5, 24(11)\n\t" /* arg3->r5 */ \
        "ld 6, 32(11)\n\t" /* arg4->r6 */ \
        "ld 7, 40(11)\n\t" /* arg5->r7 */ \
        "ld 8, 48(11)\n\t" /* arg6->r8 */ \
        "ld 9, 56(11)\n\t" /* arg7->r9 */ \
        "ld 11, 0(11)\n\t" /* target->r11 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11 \
        "mr 11,%1\n\t" \
        "mr %0,3\n\t" \
        "ld 2,-16(11)\n\t" /* restore tocptr */ \

```

```

    VALGRIND_RESTORE_STACK
    : /*out*/ "r" (_res)
    : /*in*/ "r" (&_argvec[2])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3+8];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    _argvec[2+5] = (unsigned long)arg5;
    _argvec[2+6] = (unsigned long)arg6;
    _argvec[2+7] = (unsigned long)arg7;
    _argvec[2+8] = (unsigned long)arg8;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "std 2,-16(11)\n\t" /* save tocptr */
        "ld 2,-8(11)\n\t" /* use nraddr's tocptr */
        "ld 3, 8(11)\n\t" /* arg1->r3 */
        "ld 4, 16(11)\n\t" /* arg2->r4 */
        "ld 5, 24(11)\n\t" /* arg3->r5 */
        "ld 6, 32(11)\n\t" /* arg4->r6 */
        "ld 7, 40(11)\n\t" /* arg5->r7 */
        "ld 8, 48(11)\n\t" /* arg6->r8 */
        "ld 9, 56(11)\n\t" /* arg7->r9 */
        "ld 10, 64(11)\n\t" /* arg8->r10 */
        "ld 11, 0(11)\n\t" /* target->r11 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
        "mr 11,%1\n\t"
        "mr %0,3\n\t"
        "ld 2,-16(11)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    );

```

```

lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[3+9];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
_argvec[2+4] = (unsigned long)arg4;
_argvec[2+5] = (unsigned long)arg5;
_argvec[2+6] = (unsigned long)arg6;
_argvec[2+7] = (unsigned long)arg7;
_argvec[2+8] = (unsigned long)arg8;
_argvec[2+9] = (unsigned long)arg9;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 11,%1\n\t"
    "std 2,-16(11)\n\t" /* save tocptr */
    "ld 2,-8(11)\n\t" /* use nraddr's tocptr */
    "addi 1,1,-128\n\t" /* expand stack frame */
    /* arg9 */
    "ld 3,72(11)\n\t"
    "std 3,112(1)\n\t"
    /* args1-8 */
    "ld 3, 8(11)\n\t" /* arg1->r3 */
    "ld 4, 16(11)\n\t" /* arg2->r4 */
    "ld 5, 24(11)\n\t" /* arg3->r5 */
    "ld 6, 32(11)\n\t" /* arg4->r6 */
    "ld 7, 40(11)\n\t" /* arg5->r7 */
    "ld 8, 48(11)\n\t" /* arg6->r8 */
    "ld 9, 56(11)\n\t" /* arg7->r9 */
    "ld 10, 64(11)\n\t" /* arg8->r10 */
    "ld 11, 0(11)\n\t" /* target->r11 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
    "mr 11,%1\n\t"
    "mr %0,3\n\t"
    "ld 2,-16(11)\n\t" /* restore tocptr */
    VALGRIND_RESTORE_STACK
    :/*out*/ "=r" (_res)
    :/*in*/ "r" (&_argvec[2])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \

```

```

);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[3+10];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
_argvec[2+4] = (unsigned long)arg4;
_argvec[2+5] = (unsigned long)arg5;
_argvec[2+6] = (unsigned long)arg6;
_argvec[2+7] = (unsigned long)arg7;
_argvec[2+8] = (unsigned long)arg8;
_argvec[2+9] = (unsigned long)arg9;
_argvec[2+10] = (unsigned long)arg10;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 11,%1\n\t"
    "std 2,-16(11)\n\t" /* save tocptr */
    "ld  2,-8(11)\n\t" /* use nraddr's tocptr */
    "addi 1,1,-128\n\t" /* expand stack frame */
    /* arg10 */
    "ld  3,80(11)\n\t"
    "std 3,120(1)\n\t"
    /* arg9 */
    "ld  3,72(11)\n\t"
    "std 3,112(1)\n\t"
    /* args1-8 */
    "ld  3, 8(11)\n\t" /* arg1->r3 */
    "ld  4, 16(11)\n\t" /* arg2->r4 */
    "ld  5, 24(11)\n\t" /* arg3->r5 */
    "ld  6, 32(11)\n\t" /* arg4->r6 */
    "ld  7, 40(11)\n\t" /* arg5->r7 */
    "ld  8, 48(11)\n\t" /* arg6->r8 */
    "ld  9, 56(11)\n\t" /* arg7->r9 */
    "ld 10, 64(11)\n\t" /* arg8->r10 */
    "ld 11, 0(11)\n\t" /* target->r11 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R11
    "mr 11,%1\n\t"
    "mr %0,3\n\t"

```

```

        "ld 2,-16(11)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10,arg11)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+11];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    _argvec[2+5] = (unsigned long)arg5;
    _argvec[2+6] = (unsigned long)arg6;
    _argvec[2+7] = (unsigned long)arg7;
    _argvec[2+8] = (unsigned long)arg8;
    _argvec[2+9] = (unsigned long)arg9;
    _argvec[2+10] = (unsigned long)arg10;
    _argvec[2+11] = (unsigned long)arg11;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 11,%1\n\t"
        "std 2,-16(11)\n\t" /* save tocptr */
        "ld 2,-8(11)\n\t" /* use nraddr's tocptr */
        "addi 1,1,-144\n\t" /* expand stack frame */
        /* arg11 */
        "ld 3,88(11)\n\t"
        "std 3,128(1)\n\t"
        /* arg10 */
        "ld 3,80(11)\n\t"
        "std 3,120(1)\n\t"
        /* arg9 */
        "ld 3,72(11)\n\t"
        "std 3,112(1)\n\t"
        /* args1-8 */
        "ld 3, 8(11)\n\t" /* arg1->r3 */
        "ld 4, 16(11)\n\t" /* arg2->r4 */
        "ld 5, 24(11)\n\t" /* arg3->r5 */

```



```

"ld 6,32(11)\n\t" /* arg4->r6 */      \
"ld 7,40(11)\n\t" /* arg5->r7 */      \
"ld 8,48(11)\n\t" /* arg6->r8 */      \
"ld 9,56(11)\n\t" /* arg7->r9 */      \
"ld 10,64(11)\n\t" /* arg8->r10 */     \
"ld 11,0(11)\n\t" /* target->r11 */    \
VALGRIND_BRANCH_AND_LINK_TO_NOEDIR_R11 \
"mr 11,%1\n\t"                          \
"mr %0,3\n\t"                             \
"ld 2,-16(11)\n\t" /* restore tocptr */ \
VALGRIND_RESTORE_STACK                    \
: /*out*/ "=r" (_res)                      \
: /*in*/ "r" (&_argvec[2])                \
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                      arg7,arg8,arg9,arg10,arg11,arg12) \

```

```

do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[3+12];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
_argvec[2+4] = (unsigned long)arg4;
_argvec[2+5] = (unsigned long)arg5;
_argvec[2+6] = (unsigned long)arg6;
_argvec[2+7] = (unsigned long)arg7;
_argvec[2+8] = (unsigned long)arg8;
_argvec[2+9] = (unsigned long)arg9;
_argvec[2+10] = (unsigned long)arg10;
_argvec[2+11] = (unsigned long)arg11;
_argvec[2+12] = (unsigned long)arg12;
__asm__ volatile(
VALGRIND_ALIGN_STACK
"mr 11,%1\n\t"
"std 2,-16(11)\n\t" /* save tocptr */
"ld 2,-8(11)\n\t" /* use nraddr's tocptr */
"addi 1,1,-144\n\t" /* expand stack frame */
/* arg12 */
"ld 3,96(11)\n\t"
"std 3,136(1)\n\t"

```

```

/* arg11 */
"ld 3,88(11)\n\t"
"std 3,128(1)\n\t"
/* arg10 */
"ld 3,80(11)\n\t"
"std 3,120(1)\n\t"
/* arg9 */
"ld 3,72(11)\n\t"
"std 3,112(1)\n\t"
/* args1-8 */
"ld 3, 8(11)\n\t" /* arg1->r3 */
"ld 4, 16(11)\n\t" /* arg2->r4 */
"ld 5, 24(11)\n\t" /* arg3->r5 */
"ld 6, 32(11)\n\t" /* arg4->r6 */
"ld 7, 40(11)\n\t" /* arg5->r7 */
"ld 8, 48(11)\n\t" /* arg6->r8 */
"ld 9, 56(11)\n\t" /* arg7->r9 */
"ld 10, 64(11)\n\t" /* arg8->r10 */
"ld 11, 0(11)\n\t" /* target->r11 */
VALGRIND_BRANCH_AND_LINK_TO_NOEDIR_R11
"mr 11,%1\n\t"
"mr %0,3\n\t"
"ld 2,-16(11)\n\t" /* restore tocptr */
VALGRIND_RESTORE_STACK
: /*out*/ "=r" (_res)
: /*in*/ "r" (&_argvec[2])
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_ppc64be_linux */

/* ----- ppc64le-linux ----- */
#if defined(PLAT_ppc64le_linux)

/* ARGREGS: r3 r4 r5 r6 r7 r8 r9 r10 (the rest on stack somewhere) */

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS \
"lr", "ctr", "xer", \
"cr0", "cr1", "cr2", "cr3", "cr4", "cr5", "cr6", "cr7", \
"r0", "r2", "r3", "r4", "r5", "r6", "r7", "r8", "r9", "r10", \
"r11", "r12", "r13"

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made

```

```

to other functions. */

#define VALGRIND_ALIGN_STACK \
    "mr 28,1\n\t" \
    "rldicr 1,1,0,59\n\t"
#define VALGRIND_RESTORE_STACK \
    "mr 1,28\n\t"

/* These CALL_FN_ macros assume that on ppc64-linux, sizeof(unsigned
long) == 8. */

#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[3+0]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nradrr; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "mr 12,%1\n\t" \
        "std 2,-16(12)\n\t" /* save tocptr */ \
        "ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
        "ld 12,0(12)\n\t" /* target->r12 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12 \
        "mr 12,%1\n\t" \
        "mr %0,3\n\t" \
        "ld 2,-16(12)\n\t" /* restore tocptr */ \
        VALGRIND_RESTORE_STACK \
        : /*out*/ "=r" (_res) \
        : /*in*/ "r" (&_argvec[2]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_W(lval, orig, arg1) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[3+1]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nradrr; \
    _argvec[2+1] = (unsigned long)arg1; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \

```

```

"mr 12,%1\n\t" \
"std 2,-16(12)\n\t" /* save tocptr */ \
"ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
"ld 3, 8(12)\n\t" /* arg1->r3 */ \
"ld 12, 0(12)\n\t" /* target->r12 */ \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12 \
"mr 12,%1\n\t" \
"mr %0,3\n\t" \
"ld 2,-16(12)\n\t" /* restore tocptr */ \
VALGRIND_RESTORE_STACK \
:/*out*/ "=r" (_res) \
:/*in*/ "r" (&_argvec[2]) \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1,arg2) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[3+2]; \
volatile unsigned long _res; \
/* _argvec[0] holds current r2 across the call */ \
_argvec[1] = (unsigned long)_orig.r2; \
_argvec[2] = (unsigned long)_orig.nraddr; \
_argvec[2+1] = (unsigned long)arg1; \
_argvec[2+2] = (unsigned long)arg2; \
__asm__ volatile( \
VALGRIND_ALIGN_STACK \
"mr 12,%1\n\t" \
"std 2,-16(12)\n\t" /* save tocptr */ \
"ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
"ld 3, 8(12)\n\t" /* arg1->r3 */ \
"ld 4, 16(12)\n\t" /* arg2->r4 */ \
"ld 12, 0(12)\n\t" /* target->r12 */ \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12 \
"mr 12,%1\n\t" \
"mr %0,3\n\t" \
"ld 2,-16(12)\n\t" /* restore tocptr */ \
VALGRIND_RESTORE_STACK \
:/*out*/ "=r" (_res) \
:/*in*/ "r" (&_argvec[2]) \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+3];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 12,%1\n\t"
        "std 2,-16(12)\n\t" /* save tocptr */
        "ld  2,-8(12)\n\t" /* use nraddr's tocptr */
        "ld  3, 8(12)\n\t" /* arg1->r3 */
        "ld  4, 16(12)\n\t" /* arg2->r4 */
        "ld  5, 24(12)\n\t" /* arg3->r5 */
        "ld 12, 0(12)\n\t" /* target->r12 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12
        "mr 12,%1\n\t"
        "mr %0,3\n\t"
        "ld 2,-16(12)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28"
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+4];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 12,%1\n\t"
        "std 2,-16(12)\n\t" /* save tocptr */
        "ld  2,-8(12)\n\t" /* use nraddr's tocptr */

```

```

"ld 3, 8(12)\n\t" /* arg1->r3 */          \
"ld 4, 16(12)\n\t" /* arg2->r4 */         \
"ld 5, 24(12)\n\t" /* arg3->r5 */         \
"ld 6, 32(12)\n\t" /* arg4->r6 */         \
"ld 12, 0(12)\n\t" /* target->r12 */      \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12  \
"mr 12,%1\n\t"                            \
"mr %0,3\n\t"                              \
"ld 2,-16(12)\n\t" /* restore tocptr */    \
VALGRIND_RESTORE_STACK                    \
:/*out*/ "=r" (_res)                       \
:/*in*/ "r" (&_argvec[2])                 \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[3+5];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
_argvec[2+4] = (unsigned long)arg4;
_argvec[2+5] = (unsigned long)arg5;
__asm__ volatile(
VALGRIND_ALIGN_STACK
"mr 12,%1\n\t"
"std 2,-16(12)\n\t" /* save tocptr */
"ld 2,-8(12)\n\t" /* use nraddr's tocptr */
"ld 3, 8(12)\n\t" /* arg1->r3 */
"ld 4, 16(12)\n\t" /* arg2->r4 */
"ld 5, 24(12)\n\t" /* arg3->r5 */
"ld 6, 32(12)\n\t" /* arg4->r6 */
"ld 7, 40(12)\n\t" /* arg5->r7 */
"ld 12, 0(12)\n\t" /* target->r12 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12
"mr 12,%1\n\t"
"mr %0,3\n\t"
"ld 2,-16(12)\n\t" /* restore tocptr */
VALGRIND_RESTORE_STACK
:/*out*/ "=r" (_res)
:/*in*/ "r" (&_argvec[2])

```

```

        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+6];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    _argvec[2+5] = (unsigned long)arg5;
    _argvec[2+6] = (unsigned long)arg6;
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "mr 12,%1\n\t"
        "std 2,-16(12)\n\t" /* save tocptr */
        "ld  2,-8(12)\n\t" /* use nraddr's tocptr */
        "ld  3, 8(12)\n\t" /* arg1->r3 */
        "ld  4, 16(12)\n\t" /* arg2->r4 */
        "ld  5, 24(12)\n\t" /* arg3->r5 */
        "ld  6, 32(12)\n\t" /* arg4->r6 */
        "ld  7, 40(12)\n\t" /* arg5->r7 */
        "ld  8, 48(12)\n\t" /* arg6->r8 */
        "ld 12, 0(12)\n\t" /* target->r12 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12
        "mr 12,%1\n\t"
        "mr %0,3\n\t"
        "ld 2,-16(12)\n\t" /* restore tocptr */
        VALGRIND_RESTORE_STACK
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[2])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3+7];

```

```

volatile unsigned long _res;          \
/* _argvec[0] holds current r2 across the call */ \
_argvec[1] = (unsigned long)_orig.r2; \
_argvec[2] = (unsigned long)_orig.nraddr; \
_argvec[2+1] = (unsigned long)arg1; \
_argvec[2+2] = (unsigned long)arg2; \
_argvec[2+3] = (unsigned long)arg3; \
_argvec[2+4] = (unsigned long)arg4; \
_argvec[2+5] = (unsigned long)arg5; \
_argvec[2+6] = (unsigned long)arg6; \
_argvec[2+7] = (unsigned long)arg7; \
__asm__ volatile( \
    VALGRIND_ALIGN_STACK \
    "mr 12,%1\n\t" \
    "std 2,-16(12)\n\t" /* save tocptr */ \
    "ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
    "ld 3, 8(12)\n\t" /* arg1->r3 */ \
    "ld 4, 16(12)\n\t" /* arg2->r4 */ \
    "ld 5, 24(12)\n\t" /* arg3->r5 */ \
    "ld 6, 32(12)\n\t" /* arg4->r6 */ \
    "ld 7, 40(12)\n\t" /* arg5->r7 */ \
    "ld 8, 48(12)\n\t" /* arg6->r8 */ \
    "ld 9, 56(12)\n\t" /* arg7->r9 */ \
    "ld 12, 0(12)\n\t" /* target->r12 */ \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12 \
    "mr 12,%1\n\t" \
    "mr %0,3\n\t" \
    "ld 2,-16(12)\n\t" /* restore tocptr */ \
    VALGRIND_RESTORE_STACK \
    : /*out*/ "=r" (_res) \
    : /*in*/ "r" (&_argvec[2]) \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[3+8]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nraddr; \
    _argvec[2+1] = (unsigned long)arg1; \
    _argvec[2+2] = (unsigned long)arg2; \
    _argvec[2+3] = (unsigned long)arg3;

```



```

_argvec[2+4] = (unsigned long)arg4;          \
_argvec[2+5] = (unsigned long)arg5;          \
_argvec[2+6] = (unsigned long)arg6;          \
_argvec[2+7] = (unsigned long)arg7;          \
_argvec[2+8] = (unsigned long)arg8;          \
__asm__ volatile(                            \
    VALGRIND_ALIGN_STACK                      \
    "mr 12,%1\n\t"                            \
    "std 2,-16(12)\n\t" /* save tocptr */      \
    "ld  2,-8(12)\n\t" /* use nraddr's tocptr */ \
    "ld  3, 8(12)\n\t" /* arg1->r3 */          \
    "ld  4, 16(12)\n\t" /* arg2->r4 */          \
    "ld  5, 24(12)\n\t" /* arg3->r5 */          \
    "ld  6, 32(12)\n\t" /* arg4->r6 */          \
    "ld  7, 40(12)\n\t" /* arg5->r7 */          \
    "ld  8, 48(12)\n\t" /* arg6->r8 */          \
    "ld  9, 56(12)\n\t" /* arg7->r9 */          \
    "ld 10, 64(12)\n\t" /* arg8->r10 */         \
    "ld 12, 0(12)\n\t" /* target->r12 */         \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12   \
    "mr 12,%1\n\t"                            \
    "mr %0,3\n\t"                            \
    "ld 2,-16(12)\n\t" /* restore tocptr */     \
    VALGRIND_RESTORE_STACK                    \
    :/*out*/ "=r" (_res)                      \
    :/*in*/  "r" (&_argvec[2])              \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9) \
do { \
    volatile OrigFn  _orig = (orig); \
    volatile unsigned long _argvec[3+9]; \
    volatile unsigned long _res; \
    /* _argvec[0] holds current r2 across the call */ \
    _argvec[1] = (unsigned long)_orig.r2; \
    _argvec[2] = (unsigned long)_orig.nraddr; \
    _argvec[2+1] = (unsigned long)arg1; \
    _argvec[2+2] = (unsigned long)arg2; \
    _argvec[2+3] = (unsigned long)arg3; \
    _argvec[2+4] = (unsigned long)arg4; \
    _argvec[2+5] = (unsigned long)arg5; \
    _argvec[2+6] = (unsigned long)arg6; \
    _argvec[2+7] = (unsigned long)arg7; \
    _argvec[2+8] = (unsigned long)arg8; \

```

```

_argvec[2+9] = (unsigned long)arg9;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 12,%1\n\t"
    "std 2,-16(12)\n\t" /* save tocptr */
    "ld 2,-8(12)\n\t" /* use nraddr's tocptr */
    "addi 1,1,-128\n\t" /* expand stack frame */
    /* arg9 */
    "ld 3,72(12)\n\t"
    "std 3,96(1)\n\t"
    /* args1-8 */
    "ld 3,8(12)\n\t" /* arg1->r3 */
    "ld 4,16(12)\n\t" /* arg2->r4 */
    "ld 5,24(12)\n\t" /* arg3->r5 */
    "ld 6,32(12)\n\t" /* arg4->r6 */
    "ld 7,40(12)\n\t" /* arg5->r7 */
    "ld 8,48(12)\n\t" /* arg6->r8 */
    "ld 9,56(12)\n\t" /* arg7->r9 */
    "ld 10,64(12)\n\t" /* arg8->r10 */
    "ld 12,0(12)\n\t" /* target->r12 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12
    "mr 12,%1\n\t"
    "mr %0,3\n\t"
    "ld 2,-16(12)\n\t" /* restore tocptr */
    VALGRIND_RESTORE_STACK
    : /*out*/ "=r" (_res)
    : /*in*/ "r" (&_argvec[2])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3+10];
    volatile unsigned long _res;
    /* _argvec[0] holds current r2 across the call */
    _argvec[1] = (unsigned long)_orig.r2;
    _argvec[2] = (unsigned long)_orig.nraddr;
    _argvec[2+1] = (unsigned long)arg1;
    _argvec[2+2] = (unsigned long)arg2;
    _argvec[2+3] = (unsigned long)arg3;
    _argvec[2+4] = (unsigned long)arg4;
    _argvec[2+5] = (unsigned long)arg5;
    _argvec[2+6] = (unsigned long)arg6;
    _argvec[2+7] = (unsigned long)arg7;

```

```

_argvec[2+8] = (unsigned long)arg8;          \
_argvec[2+9] = (unsigned long)arg9;          \
_argvec[2+10] = (unsigned long)arg10;        \
__asm__ volatile(                            \
    VALGRIND_ALIGN_STACK                      \
    "mr 12,%1\n\t"                            \
    "std 2,-16(12)\n\t" /* save tocptr */      \
    "ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
    "addi 1,1,-128\n\t" /* expand stack frame */ \
    /* arg10 */                                \
    "ld 3,80(12)\n\t"                          \
    "std 3,104(1)\n\t"                          \
    /* arg9 */                                  \
    "ld 3,72(12)\n\t"                          \
    "std 3,96(1)\n\t"                          \
    /* args1-8 */                              \
    "ld 3, 8(12)\n\t" /* arg1->r3 */           \
    "ld 4, 16(12)\n\t" /* arg2->r4 */           \
    "ld 5, 24(12)\n\t" /* arg3->r5 */           \
    "ld 6, 32(12)\n\t" /* arg4->r6 */           \
    "ld 7, 40(12)\n\t" /* arg5->r7 */           \
    "ld 8, 48(12)\n\t" /* arg6->r8 */           \
    "ld 9, 56(12)\n\t" /* arg7->r9 */           \
    "ld 10, 64(12)\n\t" /* arg8->r10 */         \
    "ld 12, 0(12)\n\t" /* target->r12 */        \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12   \
    "mr 12,%1\n\t"                            \
    "mr %0,3\n\t"                              \
    "ld 2,-16(12)\n\t" /* restore tocptr */     \
    VALGRIND_RESTORE_STACK                    \
    : /*out*/ "=r" (_res)                      \
    : /*in*/ "r" (&_argvec[2])                \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[3+11];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;

```

```

_argvec[2+3] = (unsigned long)arg3;          \
_argvec[2+4] = (unsigned long)arg4;          \
_argvec[2+5] = (unsigned long)arg5;          \
_argvec[2+6] = (unsigned long)arg6;          \
_argvec[2+7] = (unsigned long)arg7;          \
_argvec[2+8] = (unsigned long)arg8;          \
_argvec[2+9] = (unsigned long)arg9;          \
_argvec[2+10] = (unsigned long)arg10;        \
_argvec[2+11] = (unsigned long)arg11;        \
__asm__ volatile(                            \
    VALGRIND_ALIGN_STACK                      \
    "mr 12,%1\n\t"                            \
    "std 2,-16(12)\n\t" /* save tocptr */      \
    "ld 2,-8(12)\n\t" /* use nraddr's tocptr */ \
    "addi 1,1,-144\n\t" /* expand stack frame */ \
    /* arg11 */                                \
    "ld 3,88(12)\n\t"                          \
    "std 3,112(1)\n\t"                          \
    /* arg10 */                                \
    "ld 3,80(12)\n\t"                          \
    "std 3,104(1)\n\t"                          \
    /* arg9 */                                 \
    "ld 3,72(12)\n\t"                          \
    "std 3,96(1)\n\t"                          \
    /* args1-8 */                              \
    "ld 3,8(12)\n\t" /* arg1->r3 */             \
    "ld 4,16(12)\n\t" /* arg2->r4 */            \
    "ld 5,24(12)\n\t" /* arg3->r5 */            \
    "ld 6,32(12)\n\t" /* arg4->r6 */            \
    "ld 7,40(12)\n\t" /* arg5->r7 */            \
    "ld 8,48(12)\n\t" /* arg6->r8 */            \
    "ld 9,56(12)\n\t" /* arg7->r9 */            \
    "ld 10,64(12)\n\t" /* arg8->r10 */          \
    "ld 12,0(12)\n\t" /* target->r12 */         \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12  \
    "mr 12,%1\n\t"                            \
    "mr %0,3\n\t"                              \
    "ld 2,-16(12)\n\t" /* restore tocptr */     \
    VALGRIND_RESTORE_STACK                    \
    : /*out*/ "=r" (_res)                      \
    : /*in*/ "r" (&_argvec[2])               \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10,arg11,arg12) \

```

```

do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[3+12];
volatile unsigned long _res;
/* _argvec[0] holds current r2 across the call */
_argvec[1] = (unsigned long)_orig.r2;
_argvec[2] = (unsigned long)_orig.nraddr;
_argvec[2+1] = (unsigned long)arg1;
_argvec[2+2] = (unsigned long)arg2;
_argvec[2+3] = (unsigned long)arg3;
_argvec[2+4] = (unsigned long)arg4;
_argvec[2+5] = (unsigned long)arg5;
_argvec[2+6] = (unsigned long)arg6;
_argvec[2+7] = (unsigned long)arg7;
_argvec[2+8] = (unsigned long)arg8;
_argvec[2+9] = (unsigned long)arg9;
_argvec[2+10] = (unsigned long)arg10;
_argvec[2+11] = (unsigned long)arg11;
_argvec[2+12] = (unsigned long)arg12;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "mr 12,%1\n\t"
    "std 2,-16(12)\n\t" /* save tocptr */
    "ld  2,-8(12)\n\t" /* use nraddr's tocptr */
    "addi 1,1,-144\n\t" /* expand stack frame */
    /* arg12 */
    "ld  3,96(12)\n\t"
    "std 3,120(1)\n\t"
    /* arg11 */
    "ld  3,88(12)\n\t"
    "std 3,112(1)\n\t"
    /* arg10 */
    "ld  3,80(12)\n\t"
    "std 3,104(1)\n\t"
    /* arg9 */
    "ld  3,72(12)\n\t"
    "std 3,96(1)\n\t"
    /* args1-8 */
    "ld  3, 8(12)\n\t" /* arg1->r3 */
    "ld  4, 16(12)\n\t" /* arg2->r4 */
    "ld  5, 24(12)\n\t" /* arg3->r5 */
    "ld  6, 32(12)\n\t" /* arg4->r6 */
    "ld  7, 40(12)\n\t" /* arg5->r7 */
    "ld  8, 48(12)\n\t" /* arg6->r8 */
    "ld  9, 56(12)\n\t" /* arg7->r9 */
    "ld 10, 64(12)\n\t" /* arg8->r10 */
    "ld 12, 0(12)\n\t" /* target->r12 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R12

```

```

"mr 12,%1\n\t"          \
"mr %0,3\n\t"          \
"ld 2,-16(12)\n\t" /* restore tocptr */ \
VALGRIND_RESTORE_STACK \
: /*out*/ "=r" (_res) \
: /*in*/ "r" (&_argvec[2]) \
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r28" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#endif /* PLAT_ppc64le_linux */

```

```

/* ----- arm-linux ----- */

```

```

#if defined(PLAT_arm_linux)

```

```

/* These regs are trashed by the hidden call. */

```

```

#define __CALLER_SAVED_REGS "r0", "r1", "r2", "r3", "r4", "r14"

```

```

/* Macros to save and align the stack before making a function
call and restore it afterwards as gcc may not keep the stack
pointer aligned if it doesn't realise calls are being made
to other functions. */

```

```

/* This is a bit tricky. We store the original stack pointer in r10
as it is callee-saves. gcc doesn't allow the use of r11 for some
reason. Also, we can't directly "bic" the stack pointer in thumb
mode since r13 isn't an allowed register number in that context.
So use r4 as a temporary, since that is about to get trashed
anyway, just after each use of this macro. Side effect is we need
to be very careful about any future changes, since
VALGRIND_ALIGN_STACK simply assumes r4 is usable. */

```

```

#define VALGRIND_ALIGN_STACK \
"mov r10, sp\n\t" \
"mov r4, sp\n\t" \
"bic r4, r4, #7\n\t" \
"mov sp, r4\n\t"
#define VALGRIND_RESTORE_STACK \
"mov sp, r10\n\t"

```

```

/* These CALL_FN_ macros assume that on arm-linux, sizeof(unsigned
long) == 4. */

```

```

#define CALL_FN_W_v(lval, orig) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[1]; \

```

```

volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradddr;
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "ldr r4, [%1] \n\t" /* target->r4 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4
    VALGRIND_RESTORE_STACK
    "mov %0, r0\n"
    : /*out*/ "=r" (_res)
    : /*in*/ "0" (&_argvec[0])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_W(lval, orig, arg1)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[2];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr r0, [%1, #4] \n\t"
        "ldr r4, [%1] \n\t" /* target->r4 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4
        VALGRIND_RESTORE_STACK
        "mov %0, r0\n"
        : /*out*/ "=r" (_res)
        : /*in*/ "0" (&_argvec[0])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1, arg2)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr r0, [%1, #4] \n\t"
        "ldr r1, [%1, #8] \n\t"

```

```

    "ldr r4, [%1] \n\t" /* target->r4 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4
    VALGRIND_RESTORE_STACK
    "mov %0, r0\n"
    : /*out*/ "=r" (_res)
    : /*in*/ "0" (&_argvec[0])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[4];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr r0, [%1, #4] \n\t"
        "ldr r1, [%1, #8] \n\t"
        "ldr r2, [%1, #12] \n\t"
        "ldr r4, [%1] \n\t" /* target->r4 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4
        VALGRIND_RESTORE_STACK
        "mov %0, r0\n"
        : /*out*/ "=r" (_res)
        : /*in*/ "0" (&_argvec[0])
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[5];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK

```



```

    "ldr r0, [%1, #4] \n\t"           \
    "ldr r1, [%1, #8] \n\t"         \
    "ldr r2, [%1, #12] \n\t"        \
    "ldr r3, [%1, #16] \n\t"        \
    "ldr r4, [%1] \n\t" /* target->r4 */ \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
    VALGRIND_RESTORE_STACK          \
    "mov %0, r0"                     \
    : /*out*/ "=r" (_res)             \
    : /*in*/ "0" (&_argvec[0])      \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[6]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "sub sp, sp, #4 \n\t" \
        "ldr r0, [%1, #20] \n\t" \
        "push {r0} \n\t" \
        "ldr r0, [%1, #4] \n\t" \
        "ldr r1, [%1, #8] \n\t" \
        "ldr r2, [%1, #12] \n\t" \
        "ldr r3, [%1, #16] \n\t" \
        "ldr r4, [%1] \n\t" /* target->r4 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
        VALGRIND_RESTORE_STACK \
        "mov %0, r0" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "0" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {

```

```

volatile OrigFn    _orig = (orig);           \
volatile unsigned long _argvec[7];           \
volatile unsigned long _res;                 \
_argvec[0] = (unsigned long)_orig.nradddr;   \
_argvec[1] = (unsigned long)(arg1);          \
_argvec[2] = (unsigned long)(arg2);          \
_argvec[3] = (unsigned long)(arg3);          \
_argvec[4] = (unsigned long)(arg4);          \
_argvec[5] = (unsigned long)(arg5);          \
_argvec[6] = (unsigned long)(arg6);          \
__asm__ volatile(                             \
    VALGRIND_ALIGN_STACK                       \
    "ldr r0, [%1, #20] \n\t"                   \
    "ldr r1, [%1, #24] \n\t"                   \
    "push {r0, r1} \n\t"                       \
    "ldr r0, [%1, #4] \n\t"                     \
    "ldr r1, [%1, #8] \n\t"                     \
    "ldr r2, [%1, #12] \n\t"                   \
    "ldr r3, [%1, #16] \n\t"                   \
    "ldr r4, [%1] \n\t" /* target->r4 */        \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4    \
    VALGRIND_RESTORE_STACK                     \
    "mov %0, r0"                               \
    : /*out*/ "=r" (_res)                       \
    : /*in*/ "0" (&_argvec[0])                 \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7) \
do { \
    volatile OrigFn    _orig = (orig);           \
    volatile unsigned long _argvec[8];           \
    volatile unsigned long _res;                 \
    _argvec[0] = (unsigned long)_orig.nradddr;   \
    _argvec[1] = (unsigned long)(arg1);          \
    _argvec[2] = (unsigned long)(arg2);          \
    _argvec[3] = (unsigned long)(arg3);          \
    _argvec[4] = (unsigned long)(arg4);          \
    _argvec[5] = (unsigned long)(arg5);          \
    _argvec[6] = (unsigned long)(arg6);          \
    _argvec[7] = (unsigned long)(arg7);          \
    __asm__ volatile(                             \
        VALGRIND_ALIGN_STACK                       \
        "sub sp, sp, #4 \n\t"                       \
        "ldr r0, [%1, #20] \n\t"                   \

```

```

    "ldr r1, [%1, #24] \n\t"           \
    "ldr r2, [%1, #28] \n\t"           \
    "push {r0, r1, r2} \n\t"           \
    "ldr r0, [%1, #4] \n\t"            \
    "ldr r1, [%1, #8] \n\t"            \
    "ldr r2, [%1, #12] \n\t"           \
    "ldr r3, [%1, #16] \n\t"           \
    "ldr r4, [%1] \n\t" /* target->r4 */ \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
    VALGRIND_RESTORE_STACK             \
    "mov %0, r0"                        \
    : /*out*/ "=r" (_res)                \
    : /*in*/ "0" (&_argvec[0])          \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8) \
do {
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[9]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "ldr r0, [%1, #20] \n\t" \
        "ldr r1, [%1, #24] \n\t" \
        "ldr r2, [%1, #28] \n\t" \
        "ldr r3, [%1, #32] \n\t" \
        "push {r0, r1, r2, r3} \n\t" \
        "ldr r0, [%1, #4] \n\t" \
        "ldr r1, [%1, #8] \n\t" \
        "ldr r2, [%1, #12] \n\t" \
        "ldr r3, [%1, #16] \n\t" \
        "ldr r4, [%1] \n\t" /* target->r4 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
        VALGRIND_RESTORE_STACK \
        "mov %0, r0" \

```

```

    :/*out*/ "=r" (_res)          \
    :/*in*/ "0" (&_argvec[0])    \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[10];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradrr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
_argvec[9] = (unsigned long)(arg9);
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "sub sp, sp, #4 \n\t"
    "ldr r0, [%1, #20] \n\t"
    "ldr r1, [%1, #24] \n\t"
    "ldr r2, [%1, #28] \n\t"
    "ldr r3, [%1, #32] \n\t"
    "ldr r4, [%1, #36] \n\t"
    "push {r0, r1, r2, r3, r4} \n\t"
    "ldr r0, [%1, #4] \n\t"
    "ldr r1, [%1, #8] \n\t"
    "ldr r2, [%1, #12] \n\t"
    "ldr r3, [%1, #16] \n\t"
    "ldr r4, [%1] \n\t" /* target->r4 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4
    VALGRIND_RESTORE_STACK
    "mov %0, r0"
    :/*out*/ "=r" (_res)
    :/*in*/ "0" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \

```

```

        arg7,arg8,arg9,arg10) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[11]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "ldr r0, [%1, #40] \n\t" \
        "push {r0} \n\t" \
        "ldr r0, [%1, #20] \n\t" \
        "ldr r1, [%1, #24] \n\t" \
        "ldr r2, [%1, #28] \n\t" \
        "ldr r3, [%1, #32] \n\t" \
        "ldr r4, [%1, #36] \n\t" \
        "push {r0, r1, r2, r3, r4} \n\t" \
        "ldr r0, [%1, #4] \n\t" \
        "ldr r1, [%1, #8] \n\t" \
        "ldr r2, [%1, #12] \n\t" \
        "ldr r3, [%1, #16] \n\t" \
        "ldr r4, [%1] \n\t" /* target->r4 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4 \
        VALGRIND_RESTORE_STACK \
        "mov %0, r0" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "0" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
        arg6,arg7,arg8,arg9,arg10, \
        arg11) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[12]; \
    volatile unsigned long _res; \

```

```

_argvec[0] = (unsigned long)_orig.nraddr;      \
_argvec[1] = (unsigned long)(arg1);          \
_argvec[2] = (unsigned long)(arg2);          \
_argvec[3] = (unsigned long)(arg3);          \
_argvec[4] = (unsigned long)(arg4);          \
_argvec[5] = (unsigned long)(arg5);          \
_argvec[6] = (unsigned long)(arg6);          \
_argvec[7] = (unsigned long)(arg7);          \
_argvec[8] = (unsigned long)(arg8);          \
_argvec[9] = (unsigned long)(arg9);          \
_argvec[10] = (unsigned long)(arg10);         \
_argvec[11] = (unsigned long)(arg11);         \
__asm__ volatile(                            \
    VALGRIND_ALIGN_STACK                      \
    "sub sp, sp, #4 \n\t"                    \
    "ldr r0, [%1, #40] \n\t"                  \
    "ldr r1, [%1, #44] \n\t"                  \
    "push {r0, r1} \n\t"                      \
    "ldr r0, [%1, #20] \n\t"                  \
    "ldr r1, [%1, #24] \n\t"                  \
    "ldr r2, [%1, #28] \n\t"                  \
    "ldr r3, [%1, #32] \n\t"                  \
    "ldr r4, [%1, #36] \n\t"                  \
    "push {r0, r1, r2, r3, r4} \n\t"          \
    "ldr r0, [%1, #4] \n\t"                   \
    "ldr r1, [%1, #8] \n\t"                   \
    "ldr r2, [%1, #12] \n\t"                  \
    "ldr r3, [%1, #16] \n\t"                  \
    "ldr r4, [%1] \n\t" /* target->r4 */       \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4   \
    VALGRIND_RESTORE_STACK                    \
    "mov %0, r0"                               \
    : /*out*/ "=r" (_res)                      \
    : /*in*/ "0" (&_argvec[0])                \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
    arg6,arg7,arg8,arg9,arg10, \
    arg11,arg12) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[13]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \

```

```

_argvec[2] = (unsigned long)(arg2);           \
_argvec[3] = (unsigned long)(arg3);           \
_argvec[4] = (unsigned long)(arg4);           \
_argvec[5] = (unsigned long)(arg5);           \
_argvec[6] = (unsigned long)(arg6);           \
_argvec[7] = (unsigned long)(arg7);           \
_argvec[8] = (unsigned long)(arg8);           \
_argvec[9] = (unsigned long)(arg9);           \
_argvec[10] = (unsigned long)(arg10);         \
_argvec[11] = (unsigned long)(arg11);         \
_argvec[12] = (unsigned long)(arg12);         \
__asm__ volatile(                             \
    VALGRIND_ALIGN_STACK                       \
    "ldr r0, [%1, #40] \n\t"                   \
    "ldr r1, [%1, #44] \n\t"                   \
    "ldr r2, [%1, #48] \n\t"                   \
    "push {r0, r1, r2} \n\t"                   \
    "ldr r0, [%1, #20] \n\t"                   \
    "ldr r1, [%1, #24] \n\t"                   \
    "ldr r2, [%1, #28] \n\t"                   \
    "ldr r3, [%1, #32] \n\t"                   \
    "ldr r4, [%1, #36] \n\t"                   \
    "push {r0, r1, r2, r3, r4} \n\t"           \
    "ldr r0, [%1, #4] \n\t"                     \
    "ldr r1, [%1, #8] \n\t"                     \
    "ldr r2, [%1, #12] \n\t"                   \
    "ldr r3, [%1, #16] \n\t"                   \
    "ldr r4, [%1] \n\t" /* target->r4 */         \
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_R4    \
    VALGRIND_RESTORE_STACK                     \
    "mov %0, r0"                               \
    : /*out*/ "=r" (_res)                       \
    : /*in*/ "0" (&_argvec[0])                 \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "r10" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_arm_linux */

/* ----- arm64-linux ----- */

#if defined(PLAT_arm64_linux)

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS \
    "x0", "x1", "x2", "x3", "x4", "x5", "x6", "x7", "x8", "x9", \
    "x10", "x11", "x12", "x13", "x14", "x15", "x16", "x17", \

```

```

"x18", "x19", "x20", "x30",          \
"v0", "v1", "v2", "v3", "v4", "v5", "v6", "v7", "v8", "v9", \
"v10", "v11", "v12", "v13", "v14", "v15", "v16", "v17", \
"v18", "v19", "v20", "v21", "v22", "v23", "v24", "v25", \
"v26", "v27", "v28", "v29", "v30", "v31"

/* x21 is callee-saved, so we can use it to save and restore SP around
the hidden call. */
#define VALGRIND_ALIGN_STACK          \
    "mov x21, sp\n\t"                \
    "bic sp, x21, #15\n\t"

#define VALGRIND_RESTORE_STACK       \
    "mov sp, x21\n\t"

/* These CALL_FN_ macros assume that on arm64-linux,
sizeof(unsigned long) == 8. */

#define CALL_FN_W_v(lval, orig)      \
do {                                  \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[1]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK          \
        "ldr x8, [%1] \n\t" /* target->x8 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \
        VALGRIND_RESTORE_STACK       \
        "mov %0, x0\n\t" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "0" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_W(lval, orig, arg1) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[2]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK          \
        "ldr x0, [%1, #8] \n\t" \
        "ldr x8, [%1] \n\t" /* target->x8 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \

```



```

    VALGRIND_RESTORE_STACK
    "mov %0, x0\n"
    :/*out*/ "=r" (_res)
    :/*in*/ "0" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WW(lval, orig, arg1,arg2) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[3];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr x0, [%1, #8] \n\t"
        "ldr x1, [%1, #16] \n\t"
        "ldr x8, [%1] \n\t" /* target->x8 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
        VALGRIND_RESTORE_STACK
        "mov %0, x0\n"
        :/*out*/ "=r" (_res)
        :/*in*/ "0" (&_argvec[0])
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[4];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr x0, [%1, #8] \n\t"
        "ldr x1, [%1, #16] \n\t"
        "ldr x2, [%1, #24] \n\t"
        "ldr x8, [%1] \n\t" /* target->x8 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8

```

```

    VALGRIND_RESTORE_STACK
    "mov %0, x0\n"
    :/*out*/ "=r" (_res)
    :/*in*/ "0" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[5];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "ldr x0, [%1, #8] \n\t"
        "ldr x1, [%1, #16] \n\t"
        "ldr x2, [%1, #24] \n\t"
        "ldr x3, [%1, #32] \n\t"
        "ldr x8, [%1] \n\t" /* target->x8 */
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
        VALGRIND_RESTORE_STACK
        "mov %0, x0"
        :/*out*/ "=r" (_res)
        :/*in*/ "0" (&_argvec[0])
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[6];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    __asm__ volatile(

```

```

VALGRIND_ALIGN_STACK
"ldr x0, [%1, #8] \n\t"
"ldr x1, [%1, #16] \n\t"
"ldr x2, [%1, #24] \n\t"
"ldr x3, [%1, #32] \n\t"
"ldr x4, [%1, #40] \n\t"
"ldr x8, [%1] \n\t" /* target->x8 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
VALGRIND_RESTORE_STACK
"mov %0, x0"
:/*out*/ "=r" (_res)
:/*in*/ "0" (&_argvec[0])
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[7];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
__asm__ volatile(
VALGRIND_ALIGN_STACK
"ldr x0, [%1, #8] \n\t"
"ldr x1, [%1, #16] \n\t"
"ldr x2, [%1, #24] \n\t"
"ldr x3, [%1, #32] \n\t"
"ldr x4, [%1, #40] \n\t"
"ldr x5, [%1, #48] \n\t"
"ldr x8, [%1] \n\t" /* target->x8 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
VALGRIND_RESTORE_STACK
"mov %0, x0"
:/*out*/ "=r" (_res)
:/*in*/ "0" (&_argvec[0])
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[8]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "ldr x0, [%1, #8] \n\t" \
        "ldr x1, [%1, #16] \n\t" \
        "ldr x2, [%1, #24] \n\t" \
        "ldr x3, [%1, #32] \n\t" \
        "ldr x4, [%1, #40] \n\t" \
        "ldr x5, [%1, #48] \n\t" \
        "ldr x6, [%1, #56] \n\t" \
        "ldr x8, [%1] \n\t" /* target->x8 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \
        VALGRIND_RESTORE_STACK \
        "mov %0, x0" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "0" (&_argvec[0]) \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[9]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \

```

```

_argvec[8] = (unsigned long)(arg8);
__asm__ volatile(
    VALGRIND_ALIGN_STACK
    "ldr x0, [%1, #8] \n\t"
    "ldr x1, [%1, #16] \n\t"
    "ldr x2, [%1, #24] \n\t"
    "ldr x3, [%1, #32] \n\t"
    "ldr x4, [%1, #40] \n\t"
    "ldr x5, [%1, #48] \n\t"
    "ldr x6, [%1, #56] \n\t"
    "ldr x7, [%1, #64] \n\t"
    "ldr x8, [%1] \n\t" /* target->x8 */
    VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
    VALGRIND_RESTORE_STACK
    "mov %0, x0"
    : /*out*/ "=r" (_res)
    : /*in*/ "0" (&_argvec[0])
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[10];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    _argvec[9] = (unsigned long)(arg9);
    __asm__ volatile(
        VALGRIND_ALIGN_STACK
        "sub sp, sp, #0x20 \n\t"
        "ldr x0, [%1, #8] \n\t"
        "ldr x1, [%1, #16] \n\t"
        "ldr x2, [%1, #24] \n\t"
        "ldr x3, [%1, #32] \n\t"
        "ldr x4, [%1, #40] \n\t"
        "ldr x5, [%1, #48] \n\t"
        "ldr x6, [%1, #56] \n\t"

```

```

"ldr x7, [%1, #64] \n\t" \
"ldr x8, [%1, #72] \n\t" \
"str x8, [sp, #0] \n\t" \
"ldr x8, [%1] \n\t" /* target->x8 */ \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \
VALGRIND_RESTORE_STACK \
"mov %0, x0" \
: /*out*/ "=r" (_res) \
: /*in*/ "0" (&_argvec[0]) \
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10) \

```

```

do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[11]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    __asm__ volatile( \
        VALGRIND_ALIGN_STACK \
        "sub sp, sp, #0x20 \n\t" \
        "ldr x0, [%1, #8] \n\t" \
        "ldr x1, [%1, #16] \n\t" \
        "ldr x2, [%1, #24] \n\t" \
        "ldr x3, [%1, #32] \n\t" \
        "ldr x4, [%1, #40] \n\t" \
        "ldr x5, [%1, #48] \n\t" \
        "ldr x6, [%1, #56] \n\t" \
        "ldr x7, [%1, #64] \n\t" \
        "ldr x8, [%1, #72] \n\t" \
        "str x8, [sp, #0] \n\t" \
        "ldr x8, [%1, #80] \n\t" \
        "str x8, [sp, #8] \n\t" \
        "ldr x8, [%1] \n\t" /* target->x8 */ \
        VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \

```

```

VALGRIND_RESTORE_STACK
"mov %0, x0"
:/*out*/ " =r" (_res)
:/*in*/ "0" (&_argvec[0])
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21"
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9,arg10,arg11) \
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[12];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradddr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
_argvec[9] = (unsigned long)(arg9);
_argvec[10] = (unsigned long)(arg10);
_argvec[11] = (unsigned long)(arg11);
__asm__ volatile(
VALGRIND_ALIGN_STACK
"sub sp, sp, #0x30\n\t"
"ldr x0, [%1, #8]\n\t"
"ldr x1, [%1, #16]\n\t"
"ldr x2, [%1, #24]\n\t"
"ldr x3, [%1, #32]\n\t"
"ldr x4, [%1, #40]\n\t"
"ldr x5, [%1, #48]\n\t"
"ldr x6, [%1, #56]\n\t"
"ldr x7, [%1, #64]\n\t"
"ldr x8, [%1, #72]\n\t"
"str x8, [sp, #0]\n\t"
"ldr x8, [%1, #80]\n\t"
"str x8, [sp, #8]\n\t"
"ldr x8, [%1, #88]\n\t"
"str x8, [sp, #16]\n\t"
"ldr x8, [%1]\n\t" /* target->x8 */
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8
VALGRIND_RESTORE_STACK
"mov %0, x0"

```

```

:/*out*/ "=r" (_res) \
:/*in*/ "0" (&_argvec[0]) \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
); \
lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
arg7,arg8,arg9,arg10,arg11, \
arg12) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[13]; \
volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nraddr; \
_argvec[1] = (unsigned long)(arg1); \
_argvec[2] = (unsigned long)(arg2); \
_argvec[3] = (unsigned long)(arg3); \
_argvec[4] = (unsigned long)(arg4); \
_argvec[5] = (unsigned long)(arg5); \
_argvec[6] = (unsigned long)(arg6); \
_argvec[7] = (unsigned long)(arg7); \
_argvec[8] = (unsigned long)(arg8); \
_argvec[9] = (unsigned long)(arg9); \
_argvec[10] = (unsigned long)(arg10); \
_argvec[11] = (unsigned long)(arg11); \
_argvec[12] = (unsigned long)(arg12); \
__asm__ volatile( \
VALGRIND_ALIGN_STACK \
"sub sp, sp, #0x30\n\t" \
"ldr x0, [%1, #8]\n\t" \
"ldr x1, [%1, #16]\n\t" \
"ldr x2, [%1, #24]\n\t" \
"ldr x3, [%1, #32]\n\t" \
"ldr x4, [%1, #40]\n\t" \
"ldr x5, [%1, #48]\n\t" \
"ldr x6, [%1, #56]\n\t" \
"ldr x7, [%1, #64]\n\t" \
"ldr x8, [%1, #72]\n\t" \
"str x8, [sp, #0]\n\t" \
"ldr x8, [%1, #80]\n\t" \
"str x8, [sp, #8]\n\t" \
"ldr x8, [%1, #88]\n\t" \
"str x8, [sp, #16]\n\t" \
"ldr x8, [%1, #96]\n\t" \
"str x8, [sp, #24]\n\t" \
"ldr x8, [%1]\n\t" /* target->x8 */ \
VALGRIND_BRANCH_AND_LINK_TO_NOREDIR_X8 \

```



```

    VALGRIND_RESTORE_STACK
    "mov %0, x0"
    :/*out*/ " =r" (_res)
    :/*in*/ "0" (&_argvec[0])
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "x21" \
);
lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_arm64_linux */

/* ----- s390x-linux ----- */

#if defined(PLAT_s390x_linux)

/* Similar workaround as amd64 (see above), but we use r11 as frame
pointer and save the old r11 in r7. r11 might be used for
argvec, therefore we copy argvec in r1 since r1 is clobbered
after the call anyway. */
#if defined(__GNUC__) && defined(__GCC_HAVE_DWARF2_CFI_ASM)
# define __FRAME_POINTER
# define VALGRIND_CFI_PROLOGUE
    ".cfi_remember_state\n\t"
    "lgr 1,%1\n\t" /* copy the argvec pointer in r1 */
    "lgr 7,11\n\t"
    "lgr 11,%2\n\t"
    ".cfi_def_cfa r11, 0\n\t"
# define VALGRIND_CFI_EPILOGUE
    "lgr 11, 7\n\t"
    ".cfi_restore_state\n\t"
#else
# define __FRAME_POINTER
# define VALGRIND_CFI_PROLOGUE
    "lgr 1,%1\n\t"
# define VALGRIND_CFI_EPILOGUE
#endif

/* Nb: On s390 the stack pointer is properly aligned *at all times*
according to the s390 GCC maintainer. (The ABI specification is not
precise in this regard.) Therefore, VALGRIND_ALIGN_STACK and
VALGRIND_RESTORE_STACK are not defined here. */

/* These regs are trashed by the hidden call. Note that we overwrite
r14 in s390_irgen_noredir (VEX/priv/guest_s390_irgen.c) to give the
function a proper return address. All others are ABI defined call
clobbers. */
#define __CALLER_SAVED_REGS "0","1","2","3","4","5","14", \

```

"f0", "f1", "f2", "f3", "f4", "f5", "f6", "f7"

/\* Nb: Although r11 is modified in the asm snippets below (inside VALGRIND\_CFI\_PROLOGUE) it is not listed in the clobber section, for two reasons:  
(1) r11 is restored in VALGRIND\_CFI\_EPILOGUE, so effectively it is not modified  
(2) GCC will complain that r11 cannot appear inside a clobber section, when compiled with -O -fno-omit-frame-pointer  
\*/

```
#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[1]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        "aghi 15,-160\n\t" \
        "lg 1, 0(1)\n\t" /* target->r1 */ \
        VALGRIND_CALL_NOREDIR_R1 \
        "lgr %0, 2\n\t" \
        "aghi 15,160\n\t" \
        VALGRIND_CFI_EPILOGUE \
        : /*out*/ "=d" (_res) \
        : /*in*/ "d" (&_argvec[0]) __FRAME_POINTER \
        : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "7" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)
```

/\* The call abi has the arguments in r2-r6 and stack \*/

```
#define CALL_FN_W_W(lval, orig, arg1) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[2]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)arg1; \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        "aghi 15,-160\n\t" \
        "lg 2, 8(1)\n\t" \
        "lg 1, 0(1)\n\t" \
        VALGRIND_CALL_NOREDIR_R1 \
        "lgr %0, 2\n\t" \
        "aghi 15,160\n\t" \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)
```

```

VALGRIND_CFI_EPILOGUE
: /*out*/ " =d" (_res)
: /*in*/ "a" (&_argvec[0]) __FRAME_POINTER
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"7"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1, arg2)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[3];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
"aghi 15,-160\n\t"
"Ig 2, 8(1)\n\t"
"Ig 3,16(1)\n\t"
"Ig 1, 0(1)\n\t"
VALGRIND_CALL_NOREDIR_R1
"Igr %0, 2\n\t"
"aghi 15,160\n\t"
VALGRIND_CFI_EPILOGUE
: /*out*/ " =d" (_res)
: /*in*/ "a" (&_argvec[0]) __FRAME_POINTER
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"7"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WWW(lval, orig, arg1, arg2, arg3)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[4];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
_argvec[3] = (unsigned long)arg3;
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
"aghi 15,-160\n\t"
"Ig 2, 8(1)\n\t"
"Ig 3,16(1)\n\t"
"Ig 4,24(1)\n\t"

```

```

"lg 1, 0(1)\n\t"
VALGRIND_CALL_NOREDIR_R1
"lgr %0, 2\n\t"
"aghi 15,160\n\t"
VALGRIND_CFI_EPILOGUE
:/*out*/ "=d" (_res)
:/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"7"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WWWW(lval, orig, arg1, arg2, arg3, arg4)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[5];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
_argvec[3] = (unsigned long)arg3;
_argvec[4] = (unsigned long)arg4;
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
"aghi 15,-160\n\t"
"lg 2, 8(1)\n\t"
"lg 3,16(1)\n\t"
"lg 4,24(1)\n\t"
"lg 5,32(1)\n\t"
"lg 1, 0(1)\n\t"
VALGRIND_CALL_NOREDIR_R1
"lgr %0, 2\n\t"
"aghi 15,160\n\t"
VALGRIND_CFI_EPILOGUE
:/*out*/ "=d" (_res)
:/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"7"
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_5W(lval, orig, arg1, arg2, arg3, arg4, arg5)
do {
volatile OrigFn _orig = (orig);
volatile unsigned long _argvec[6];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;

```

```

_argvec[2] = (unsigned long)arg2;          \
_argvec[3] = (unsigned long)arg3;          \
_argvec[4] = (unsigned long)arg4;          \
_argvec[5] = (unsigned long)arg5;          \
__asm__ volatile(                          \
    VALGRIND_CFI_PROLOGUE                  \
    "aghi 15,-160\n\t"                      \
    "lg 2, 8(1)\n\t"                        \
    "lg 3,16(1)\n\t"                        \
    "lg 4,24(1)\n\t"                        \
    "lg 5,32(1)\n\t"                        \
    "lg 6,40(1)\n\t"                        \
    "lg 1, 0(1)\n\t"                        \
    VALGRIND_CALL_NOREDIR_R1              \
    "lgr %0, 2\n\t"                          \
    "aghi 15,160\n\t"                       \
    VALGRIND_CFI_EPILOGUE                  \
    :/*out*/ "=d" (_res)                    \
    :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_6W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[7]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)arg1; \
    _argvec[2] = (unsigned long)arg2; \
    _argvec[3] = (unsigned long)arg3; \
    _argvec[4] = (unsigned long)arg4; \
    _argvec[5] = (unsigned long)arg5; \
    _argvec[6] = (unsigned long)arg6; \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        "aghi 15,-168\n\t" \
        "lg 2, 8(1)\n\t" \
        "lg 3,16(1)\n\t" \
        "lg 4,24(1)\n\t" \
        "lg 5,32(1)\n\t" \
        "lg 6,40(1)\n\t" \
        "mvc 160(8,15), 48(1)\n\t" \
        "lg 1, 0(1)\n\t" \
        VALGRIND_CALL_NOREDIR_R1 \
    )

```

```

    "lgr %0, 2\n\t"
    "aghi 15,168\n\t"
    VALGRIND_CFI_EPILOGUE
    :/*out*/ "=d" (_res)
    :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
    :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[8];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;
    _argvec[6] = (unsigned long)arg6;
    _argvec[7] = (unsigned long)arg7;
    __asm__ volatile(
        VALGRIND_CFI_PROLOGUE
        "aghi 15,-176\n\t"
        "lg 2, 8(1)\n\t"
        "lg 3,16(1)\n\t"
        "lg 4,24(1)\n\t"
        "lg 5,32(1)\n\t"
        "lg 6,40(1)\n\t"
        "mvc 160(8,15), 48(1)\n\t"
        "mvc 168(8,15), 56(1)\n\t"
        "lg 1, 0(1)\n\t"
        VALGRIND_CALL_NOREDIR_R1
        "lgr %0, 2\n\t"
        "aghi 15,176\n\t"
        VALGRIND_CFI_EPILOGUE
        :/*out*/ "=d" (_res)
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_8W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7 ,arg8)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[9];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;
    _argvec[6] = (unsigned long)arg6;
    _argvec[7] = (unsigned long)arg7;
    _argvec[8] = (unsigned long)arg8;
    __asm__ volatile(
        VALGRIND_CFI_PROLOGUE
        "aghi 15,-184\n\t"
        "lg 2, 8(1)\n\t"
        "lg 3,16(1)\n\t"
        "lg 4,24(1)\n\t"
        "lg 5,32(1)\n\t"
        "lg 6,40(1)\n\t"
        "mvc 160(8,15), 48(1)\n\t"
        "mvc 168(8,15), 56(1)\n\t"
        "mvc 176(8,15), 64(1)\n\t"
        "lg 1, 0(1)\n\t"
        VALGRIND_CALL_NOREDIR_R1
        "lgr %0, 2\n\t"
        "aghi 15,184\n\t"
        VALGRIND_CFI_EPILOGUE
        :/*out*/ "=d" (_res)
        :/*in*/ "a" (&_argvec[0]) __FRAME_POINTER
        :/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_9W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7 ,arg8, arg9)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[10];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)arg1;
    _argvec[2] = (unsigned long)arg2;
    _argvec[3] = (unsigned long)arg3;
    _argvec[4] = (unsigned long)arg4;
    _argvec[5] = (unsigned long)arg5;

```

```

_argvec[6] = (unsigned long)arg6;          \
_argvec[7] = (unsigned long)arg7;          \
_argvec[8] = (unsigned long)arg8;          \
_argvec[9] = (unsigned long)arg9;          \
__asm__ volatile(                          \
    VALGRIND_CFI_PROLOGUE                  \
    "aghi 15,-192\n\t"                      \
    "lg 2, 8(1)\n\t"                        \
    "lg 3,16(1)\n\t"                        \
    "lg 4,24(1)\n\t"                        \
    "lg 5,32(1)\n\t"                        \
    "lg 6,40(1)\n\t"                        \
    "mvc 160(8,15), 48(1)\n\t"              \
    "mvc 168(8,15), 56(1)\n\t"              \
    "mvc 176(8,15), 64(1)\n\t"              \
    "mvc 184(8,15), 72(1)\n\t"              \
    "lg 1, 0(1)\n\t"                        \
    VALGRIND_CALL_NOREDIR_R1                \
    "lgr %0, 2\n\t"                          \
    "aghi 15,192\n\t"                       \
    VALGRIND_CFI_EPILOGUE                  \
    : /*out*/ "=d" (_res)                   \
    : /*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
    : /*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_10W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7 ,arg8, arg9, arg10) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[11]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)arg1; \
    _argvec[2] = (unsigned long)arg2; \
    _argvec[3] = (unsigned long)arg3; \
    _argvec[4] = (unsigned long)arg4; \
    _argvec[5] = (unsigned long)arg5; \
    _argvec[6] = (unsigned long)arg6; \
    _argvec[7] = (unsigned long)arg7; \
    _argvec[8] = (unsigned long)arg8; \
    _argvec[9] = (unsigned long)arg9; \
    _argvec[10] = (unsigned long)arg10; \
    __asm__ volatile( \
        VALGRIND_CFI_PROLOGUE \
        "aghi 15,-200\n\t" \

```



```

"lg 2, 8(1)\n\t"          \
"lg 3,16(1)\n\t"         \
"lg 4,24(1)\n\t"         \
"lg 5,32(1)\n\t"         \
"lg 6,40(1)\n\t"         \
"mvc 160(8,15), 48(1)\n\t" \
"mvc 168(8,15), 56(1)\n\t" \
"mvc 176(8,15), 64(1)\n\t" \
"mvc 184(8,15), 72(1)\n\t" \
"mvc 192(8,15), 80(1)\n\t" \
"lg 1, 0(1)\n\t"         \
VALGRIND_CALL_NOREDIR_R1 \
"lgr %0, 2\n\t"          \
"aghi 15,200\n\t"        \
VALGRIND_CFI_EPILOGUE   \
:/*out*/ " =d" (_res)    \
:/*in*/ " a" (&_argvec[0]) __FRAME_POINTER \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_11W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7 ,arg8, arg9, arg10, arg11) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[12];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
_argvec[3] = (unsigned long)arg3;
_argvec[4] = (unsigned long)arg4;
_argvec[5] = (unsigned long)arg5;
_argvec[6] = (unsigned long)arg6;
_argvec[7] = (unsigned long)arg7;
_argvec[8] = (unsigned long)arg8;
_argvec[9] = (unsigned long)arg9;
_argvec[10] = (unsigned long)arg10;
_argvec[11] = (unsigned long)arg11;
__asm__ volatile(
VALGRIND_CFI_PROLOGUE \
"aghi 15,-208\n\t" \
"lg 2, 8(1)\n\t" \
"lg 3,16(1)\n\t" \
"lg 4,24(1)\n\t" \
"lg 5,32(1)\n\t" \
"lg 6,40(1)\n\t" \

```

```

"mvc 160(8,15), 48(1)\n\t"          \
"mvc 168(8,15), 56(1)\n\t"          \
"mvc 176(8,15), 64(1)\n\t"          \
"mvc 184(8,15), 72(1)\n\t"          \
"mvc 192(8,15), 80(1)\n\t"          \
"mvc 200(8,15), 88(1)\n\t"          \
"Ig 1, 0(1)\n\t"                    \
VALGRIND_CALL_NOREDIR_R1              \
"Igr %0, 2\n\t"                      \
"aghi 15,208\n\t"                    \
VALGRIND_CFI_EPILOGUE                 \
:/*out*/ "d" (_res)                   \
:/*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
:/*trash*/ "cc", "memory", __CALLER_SAVED_REGS,"6","7" \
);                                     \
lval = (__typeof__(lval)) _res;       \
} while (0)

```

```

#define CALL_FN_W_12W(lval, orig, arg1, arg2, arg3, arg4, arg5, \
    arg6, arg7 ,arg8, arg9, arg10, arg11, arg12)\

```

```

do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[13];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nraddr;
_argvec[1] = (unsigned long)arg1;
_argvec[2] = (unsigned long)arg2;
_argvec[3] = (unsigned long)arg3;
_argvec[4] = (unsigned long)arg4;
_argvec[5] = (unsigned long)arg5;
_argvec[6] = (unsigned long)arg6;
_argvec[7] = (unsigned long)arg7;
_argvec[8] = (unsigned long)arg8;
_argvec[9] = (unsigned long)arg9;
_argvec[10] = (unsigned long)arg10;
_argvec[11] = (unsigned long)arg11;
_argvec[12] = (unsigned long)arg12;
__asm__ volatile(
VALGRIND_CFI_PROLOGUE
"aghi 15,-216\n\t"
"Ig 2, 8(1)\n\t"
"Ig 3,16(1)\n\t"
"Ig 4,24(1)\n\t"
"Ig 5,32(1)\n\t"
"Ig 6,40(1)\n\t"
"mvc 160(8,15), 48(1)\n\t"
"mvc 168(8,15), 56(1)\n\t"
"mvc 176(8,15), 64(1)\n\t"

```

```

"mvc 184(8,15), 72(1)\n\t"          \
"mvc 192(8,15), 80(1)\n\t"          \
"mvc 200(8,15), 88(1)\n\t"          \
"mvc 208(8,15), 96(1)\n\t"          \
"lg 1, 0(1)\n\t"                    \
VALGRIND_CALL_NOREDIR_R1             \
"lgr %0, 2\n\t"                      \
"aghi 15,216\n\t"                    \
VALGRIND_CFI_EPILOGUE                \
: /*out*/ "=d" (_res)                 \
: /*in*/ "a" (&_argvec[0]) __FRAME_POINTER \
: /*trash*/ "cc", "memory", __CALLER_SAVED_REGS, "6", "7" \
);                                     \
lval = (__typeof__(lval)) _res;        \
} while (0)

```

```

#endif /* PLAT_s390x_linux */

```

```

/* ----- mips32-linux ----- */

```

```

#if defined(PLAT_mips32_linux)

```

```

/* These regs are trashed by the hidden call. */

```

```

#define __CALLER_SAVED_REGS "$2", "$3", "$4", "$5", "$6", \
"$7", "$8", "$9", "$10", "$11", "$12", "$13", "$14", "$15", "$24", \
"$25", "$31"

```

```

/* These CALL_FN_ macros assume that on mips-linux, sizeof(unsigned
long) == 4. */

```

```

#define CALL_FN_W_v(lval, orig) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[1]; \
volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nradddr; \
__asm__ volatile( \
"subu $29, $29, 8\n\t" \
"sw $28, 0($29)\n\t" \
"sw $31, 4($29)\n\t" \
"subu $29, $29, 16\n\t" \
"lw $25, 0(%1)\n\t" /* target->t9 */ \
VALGRIND_CALL_NOREDIR_T9 \
"addu $29, $29, 16\n\t" \
"lw $28, 0($29)\n\t" \
"lw $31, 4($29)\n\t" \
"addu $29, $29, 8\n\t" \

```

```

    "move %0, $2\n"
    : /*out*/ "=r" (_res)
    : /*in*/ "0" (&_argvec[0])
    : /*trash*/ "memory", __CALLER_SAVED_REGS
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_W(lval, orig, arg1)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[2];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    __asm__ volatile(
        "subu $29, $29, 8 \n\t"
        "sw $28, 0($29) \n\t"
        "sw $31, 4($29) \n\t"
        "subu $29, $29, 16 \n\t"
        "lw $4, 4(%1) \n\t" /* arg1 */
        "lw $25, 0(%1) \n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "addu $29, $29, 16 \n\t"
        "lw $28, 0($29) \n\t"
        "lw $31, 4($29) \n\t"
        "addu $29, $29, 8 \n\t"
        "move %0, $2\n"
        : /*out*/ "=r" (_res)
        : /*in*/ "0" (&_argvec[0])
        : /*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1, arg2)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    __asm__ volatile(
        "subu $29, $29, 8 \n\t"
        "sw $28, 0($29) \n\t"
        "sw $31, 4($29) \n\t"
        "subu $29, $29, 16 \n\t"

```

```

    "lw $4, 4(%1) \n\t"           \
    "lw $5, 8(%1) \n\t"           \
    "lw $25, 0(%1) \n\t" /* target->t9 */ \
    VALGRIND_CALL_NOREDIR_T9      \
    "addu $29, $29, 16 \n\t"       \
    "lw $28, 0($29) \n\t"         \
    "lw $31, 4($29) \n\t"         \
    "addu $29, $29, 8 \n\t"       \
    "move %0, $2\n"               \
    : /*out*/ "=r" (_res)         \
    : /*in*/ "0" (&_argvec[0])   \
    : /*trash*/ "memory", __CALLER_SAVED_REGS \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3) \
do {
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[4]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradrr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    __asm__ volatile(
        "subu $29, $29, 8 \n\t" \
        "sw $28, 0($29) \n\t" \
        "sw $31, 4($29) \n\t" \
        "subu $29, $29, 16 \n\t" \
        "lw $4, 4(%1) \n\t" \
        "lw $5, 8(%1) \n\t" \
        "lw $6, 12(%1) \n\t" \
        "lw $25, 0(%1) \n\t" /* target->t9 */ \
        VALGRIND_CALL_NOREDIR_T9 \
        "addu $29, $29, 16 \n\t" \
        "lw $28, 0($29) \n\t" \
        "lw $31, 4($29) \n\t" \
        "addu $29, $29, 8 \n\t" \
        "move %0, $2\n" \
        : /*out*/ "=r" (_res) \
        : /*in*/ "0" (&_argvec[0]) \
        : /*trash*/ "memory", __CALLER_SAVED_REGS \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4) \

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[5];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    __asm__ volatile(
        "subu $29, $29, 8 \n\t"
        "sw $28, 0($29) \n\t"
        "sw $31, 4($29) \n\t"
        "subu $29, $29, 16 \n\t"
        "lw $4, 4(%1) \n\t"
        "lw $5, 8(%1) \n\t"
        "lw $6, 12(%1) \n\t"
        "lw $7, 16(%1) \n\t"
        "lw $25, 0(%1) \n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "addu $29, $29, 16 \n\t"
        "lw $28, 0($29) \n\t"
        "lw $31, 4($29) \n\t"
        "addu $29, $29, 8 \n\t"
        "move %0, $2\n"
        : /*out*/ "=r" (_res)
        : /*in*/ "0" (&_argvec[0])
        : /*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5)

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[6];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    __asm__ volatile(
        "subu $29, $29, 8 \n\t"
        "sw $28, 0($29) \n\t"
        "sw $31, 4($29) \n\t"
        "lw $4, 20(%1) \n\t"

```

```

"subu $29, $29, 24\n\t"          \
"sw $4, 16($29) \n\t"          \
"lw $4, 4(%1) \n\t"           \
"lw $5, 8(%1) \n\t"           \
"lw $6, 12(%1) \n\t"          \
"lw $7, 16(%1) \n\t"          \
"lw $25, 0(%1) \n\t" /* target->t9 */ \
VALGRIND_CALL_NOREDIR_T9      \
"addu $29, $29, 24 \n\t"       \
"lw $28, 0($29) \n\t"         \
"lw $31, 4($29) \n\t"         \
"addu $29, $29, 8 \n\t"       \
"move %0, $2\n\t"             \
: /*out*/ "=r" (_res)         \
: /*in*/ "0" (&_argvec[0])   \
: /*trash*/ "memory", __CALLER_SAVED_REGS \
);                               \
lval = (__typeof__(lval)) _res; \
} while (0)
#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {                               \
volatile OrigFn    _orig = (orig); \
volatile unsigned long _argvec[7]; \
volatile unsigned long _res;       \
_argvec[0] = (unsigned long)_orig.nradddr; \
_argvec[1] = (unsigned long)(arg1); \
_argvec[2] = (unsigned long)(arg2); \
_argvec[3] = (unsigned long)(arg3); \
_argvec[4] = (unsigned long)(arg4); \
_argvec[5] = (unsigned long)(arg5); \
_argvec[6] = (unsigned long)(arg6); \
__asm__ volatile( \
"subu $29, $29, 8 \n\t" \
"sw $28, 0($29) \n\t" \
"sw $31, 4($29) \n\t" \
"lw $4, 20(%1) \n\t" \
"subu $29, $29, 32\n\t" \
"sw $4, 16($29) \n\t" \
"lw $4, 24(%1) \n\t" \
"nop\n\t" \
"sw $4, 20($29) \n\t" \
"lw $4, 4(%1) \n\t" \
"lw $5, 8(%1) \n\t" \
"lw $6, 12(%1) \n\t" \
"lw $7, 16(%1) \n\t" \
"lw $25, 0(%1) \n\t" /* target->t9 */ \
VALGRIND_CALL_NOREDIR_T9 \
"addu $29, $29, 32 \n\t" \

```

```

    "lw $28, 0($29) \n\t"          \
    "lw $31, 4($29) \n\t"          \
    "addu $29, $29, 8 \n\t"        \
    "move %0, $2\n"                \
    : /*out*/ "=r" (_res)          \
    : /*in*/ "0" (&_argvec[0])    \
    : /*trash*/ "memory", __CALLER_SAVED_REGS \
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7) \

```

```

do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[8];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    __asm__ volatile(
        "subu $29, $29, 8 \n\t"
        "sw $28, 0($29) \n\t"
        "sw $31, 4($29) \n\t"
        "lw $4, 20(%1) \n\t"
        "subu $29, $29, 32\n\t"
        "sw $4, 16($29) \n\t"
        "lw $4, 24(%1) \n\t"
        "sw $4, 20($29) \n\t"
        "lw $4, 28(%1) \n\t"
        "sw $4, 24($29) \n\t"
        "lw $4, 4(%1) \n\t"
        "lw $5, 8(%1) \n\t"
        "lw $6, 12(%1) \n\t"
        "lw $7, 16(%1) \n\t"
        "lw $25, 0(%1) \n\t" /* target->t9 */
        VALGRIND_CALL_NOEDIR_T9
        "addu $29, $29, 32 \n\t"
        "lw $28, 0($29) \n\t"
        "lw $31, 4($29) \n\t"
        "addu $29, $29, 8 \n\t"
        "move %0, $2\n"
        : /*out*/ "=r" (_res)

```



```

    /*in*/ "0" (&_argvec[0])
    /*trash*/ "memory", __CALLER_SAVED_REGS
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[9];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    __asm__ volatile(
        "subu $29, $29, 8\n\t"
        "sw $28, 0($29)\n\t"
        "sw $31, 4($29)\n\t"
        "lw $4, 20(%1)\n\t"
        "subu $29, $29, 40\n\t"
        "sw $4, 16($29)\n\t"
        "lw $4, 24(%1)\n\t"
        "sw $4, 20($29)\n\t"
        "lw $4, 28(%1)\n\t"
        "sw $4, 24($29)\n\t"
        "lw $4, 32(%1)\n\t"
        "sw $4, 28($29)\n\t"
        "lw $4, 4(%1)\n\t"
        "lw $5, 8(%1)\n\t"
        "lw $6, 12(%1)\n\t"
        "lw $7, 16(%1)\n\t"
        "lw $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "addu $29, $29, 40\n\t"
        "lw $28, 0($29)\n\t"
        "lw $31, 4($29)\n\t"
        "addu $29, $29, 8\n\t"
        "move %0, $2\n\t"
        /*out*/ "=r" (_res)
        /*in*/ "0" (&_argvec[0])
        /*trash*/ "memory", __CALLER_SAVED_REGS

```

```

);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[10];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
_argvec[9] = (unsigned long)(arg9);
__asm__ volatile(
"subu $29, $29, 8\n\t"
"sw $28, 0($29)\n\t"
"sw $31, 4($29)\n\t"
"lw $4, 20(%1)\n\t"
"subu $29, $29, 40\n\t"
"sw $4, 16($29)\n\t"
"lw $4, 24(%1)\n\t"
"sw $4, 20($29)\n\t"
"lw $4, 28(%1)\n\t"
"sw $4, 24($29)\n\t"
"lw $4, 32(%1)\n\t"
"sw $4, 28($29)\n\t"
"lw $4, 36(%1)\n\t"
"sw $4, 32($29)\n\t"
"lw $4, 4(%1)\n\t"
"lw $5, 8(%1)\n\t"
"lw $6, 12(%1)\n\t"
"lw $7, 16(%1)\n\t"
"lw $25, 0(%1)\n\t" /* target->t9 */
VALGRIND_CALL_NOREDIR_T9
"addu $29, $29, 40\n\t"
"lw $28, 0($29)\n\t"
"lw $31, 4($29)\n\t"
"addu $29, $29, 8\n\t"
"move %0, $2\n\t"
:/*out*/ "=r" (_res)
:/*in*/ "0" (&_argvec[0])

```

```

    : /*trash*/ "memory", __CALLER_SAVED_REGS    \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
    arg7,arg8,arg9,arg10) \
do {
volatile OrigFn    _orig = (orig);
volatile unsigned long _argvec[11];
volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradrr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
_argvec[9] = (unsigned long)(arg9);
_argvec[10] = (unsigned long)(arg10);
__asm__ volatile(
    "subu $29, $29, 8 \n\t"
    "sw $28, 0($29) \n\t"
    "sw $31, 4($29) \n\t"
    "lw $4, 20(%1) \n\t"
    "subu $29, $29, 48 \n\t"
    "sw $4, 16($29) \n\t"
    "lw $4, 24(%1) \n\t"
    "sw $4, 20($29) \n\t"
    "lw $4, 28(%1) \n\t"
    "sw $4, 24($29) \n\t"
    "lw $4, 32(%1) \n\t"
    "sw $4, 28($29) \n\t"
    "lw $4, 36(%1) \n\t"
    "sw $4, 32($29) \n\t"
    "lw $4, 40(%1) \n\t"
    "sw $4, 36($29) \n\t"
    "lw $4, 4(%1) \n\t"
    "lw $5, 8(%1) \n\t"
    "lw $6, 12(%1) \n\t"
    "lw $7, 16(%1) \n\t"
    "lw $25, 0(%1) \n\t" /* target->t9 */
    VALGRIND_CALL_NOREDIR_T9
    "addu $29, $29, 48 \n\t"
    "lw $28, 0($29) \n\t"
    "lw $31, 4($29) \n\t"

```

```

    "addu $29, $29, 8 \n\t"          \
    "move %0, $2\n"                  \
    : /*out*/ "=r" (_res)            \
    : /*in*/ "0" (&_argvec[0])      \
    : /*trash*/ "memory", __CALLER_SAVED_REGS \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
    arg6,arg7,arg8,arg9,arg10, \
    arg11) \
do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[12]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    _argvec[11] = (unsigned long)(arg11); \
    __asm__ volatile( \
        "subu $29, $29, 8 \n\t" \
        "sw $28, 0($29) \n\t" \
        "sw $31, 4($29) \n\t" \
        "lw $4, 20(%1) \n\t" \
        "subu $29, $29, 48\n\t" \
        "sw $4, 16($29) \n\t" \
        "lw $4, 24(%1) \n\t" \
        "sw $4, 20($29) \n\t" \
        "lw $4, 28(%1) \n\t" \
        "sw $4, 24($29) \n\t" \
        "lw $4, 32(%1) \n\t" \
        "sw $4, 28($29) \n\t" \
        "lw $4, 36(%1) \n\t" \
        "sw $4, 32($29) \n\t" \
        "lw $4, 40(%1) \n\t" \
        "sw $4, 36($29) \n\t" \
        "lw $4, 44(%1) \n\t" \
        "sw $4, 40($29) \n\t" \
        "lw $4, 4(%1) \n\t" \

```

```

    "lw $5, 8(%1) \n\t"           \
    "lw $6, 12(%1) \n\t"         \
    "lw $7, 16(%1) \n\t"         \
    "lw $25, 0(%1) \n\t" /* target->t9 */ \
    VALGRIND_CALL_NOREDIR_T9      \
    "addu $29, $29, 48 \n\t"      \
    "lw $28, 0($29) \n\t"        \
    "lw $31, 4($29) \n\t"        \
    "addu $29, $29, 8 \n\t"       \
    "move %0, $2\n\t"            \
    : /*out*/ "=r" (_res)         \
    : /*in*/ "0" (&_argvec[0])   \
    : /*trash*/ "memory", __CALLER_SAVED_REGS \
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
    arg6,arg7,arg8,arg9,arg10, \
    arg11,arg12) \
do {
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[13]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nraddr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    _argvec[11] = (unsigned long)(arg11); \
    _argvec[12] = (unsigned long)(arg12); \
    __asm__ volatile( \
        "subu $29, $29, 8 \n\t" \
        "sw $28, 0($29) \n\t" \
        "sw $31, 4($29) \n\t" \
        "lw $4, 20(%1) \n\t" \
        "subu $29, $29, 56\n\t" \
        "sw $4, 16($29) \n\t" \
        "lw $4, 24(%1) \n\t" \
        "sw $4, 20($29) \n\t" \
        "lw $4, 28(%1) \n\t" \
        "sw $4, 24($29) \n\t" \

```

```

        "lw $4, 32(%1) \n\t"           \
        "sw $4, 28($29) \n\t"         \
        "lw $4, 36(%1) \n\t"           \
        "sw $4, 32($29) \n\t"         \
        "lw $4, 40(%1) \n\t"           \
        "sw $4, 36($29) \n\t"         \
        "lw $4, 44(%1) \n\t"           \
        "sw $4, 40($29) \n\t"         \
        "lw $4, 48(%1) \n\t"           \
        "sw $4, 44($29) \n\t"         \
        "lw $4, 4(%1) \n\t"           \
        "lw $5, 8(%1) \n\t"           \
        "lw $6, 12(%1) \n\t"          \
        "lw $7, 16(%1) \n\t"          \
        "lw $25, 0(%1) \n\t" /* target->t9 */ \
        VALGRIND_CALL_NOREDIR_T9      \
        "addu $29, $29, 56 \n\t"       \
        "lw $28, 0($29) \n\t"         \
        "lw $31, 4($29) \n\t"         \
        "addu $29, $29, 8 \n\t"       \
        "move %0, $2\n"               \
        : /*out*/ "=r" (_res)         \
        : /*in*/ "r" (&_argvec[0])   \
        : /*trash*/ "memory", __CALLER_SAVED_REGS \
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_mips32_linux */

/* ----- mips64-linux ----- */

#if defined(PLAT_mips64_linux)

/* These regs are trashed by the hidden call. */
#define __CALLER_SAVED_REGS "$2", "$3", "$4", "$5", "$6", \
"$7", "$8", "$9", "$10", "$11", "$12", "$13", "$14", "$15", "$24", \
"$25", "$31"

/* These CALL_FN_ macros assume that on mips-linux, sizeof(unsigned
long) == 4. */

#define CALL_FN_W_v(lval, orig) \
do { \
    volatile OrigFn _orig = (orig); \
    volatile unsigned long _argvec[1]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradr; \

```

```

__asm__ volatile(
    "ld $25, 0(%1)\n\t" /* target->t9 */
    VALGRIND_CALL_NOREDIR_T9
    "move %0, $2\n\t"
    : /*out*/ "=r" (_res)
    : /*in*/ "0" (&_argvec[0])
    : /*trash*/ "memory", __CALLER_SAVED_REGS
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_W(lval, orig, arg1)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[2];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t" /* arg1 */
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n\t"
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[0])
        : /*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_WW(lval, orig, arg1, arg2)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[3];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n\t"
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[0])
        : /*trash*/ "memory", __CALLER_SAVED_REGS
    );

```

```

    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWW(lval, orig, arg1,arg2,arg3)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[4];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n\t"
        :/*out*/ "=r" (_res)
        :/*in*/ "r" (&_argvec[0])
        :/*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_WWWW(lval, orig, arg1,arg2,arg3,arg4)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[5];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $7, 32(%1)\n\t"
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n\t"
        :/*out*/ "=r" (_res)
        :/*in*/ "r" (&_argvec[0])
        :/*trash*/ "memory", __CALLER_SAVED_REGS
    );

```



```

    lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_5W(lval, orig, arg1,arg2,arg3,arg4,arg5) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[6];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $7, 32(%1)\n\t"
        "ld $8, 40(%1)\n\t"
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n\t"
        : /*out*/ "=r" (_res)
        : /*in*/ "r" (&_argvec[0])
        : /*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_6W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6) \
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[7];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $7, 32(%1)\n\t"
        "ld $8, 40(%1)\n\t"

```

```

        "ld $9, 48(%1)\n\t"
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n"
        :/*out*/ "=r" (_res)
        :/*in*/ "r" (&_argvec[0])
        :/*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_7W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[8];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    __asm__ volatile(
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $7, 32(%1)\n\t"
        "ld $8, 40(%1)\n\t"
        "ld $9, 48(%1)\n\t"
        "ld $10, 56(%1)\n\t"
        "ld $25, 0(%1) \n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "move %0, $2\n"
        :/*out*/ "=r" (_res)
        :/*in*/ "r" (&_argvec[0])
        :/*trash*/ "memory", __CALLER_SAVED_REGS
    );
    lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_8W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8)
do {
    volatile OrigFn    _orig = (orig);
    volatile unsigned long _argvec[9];

```

```

volatile unsigned long _res;
_argvec[0] = (unsigned long)_orig.nradrr;
_argvec[1] = (unsigned long)(arg1);
_argvec[2] = (unsigned long)(arg2);
_argvec[3] = (unsigned long)(arg3);
_argvec[4] = (unsigned long)(arg4);
_argvec[5] = (unsigned long)(arg5);
_argvec[6] = (unsigned long)(arg6);
_argvec[7] = (unsigned long)(arg7);
_argvec[8] = (unsigned long)(arg8);
__asm__ volatile(
    "ld $4, 8(%1)\n\t"
    "ld $5, 16(%1)\n\t"
    "ld $6, 24(%1)\n\t"
    "ld $7, 32(%1)\n\t"
    "ld $8, 40(%1)\n\t"
    "ld $9, 48(%1)\n\t"
    "ld $10, 56(%1)\n\t"
    "ld $11, 64(%1)\n\t"
    "ld $25, 0(%1) \n\t" /* target->t9 */
    VALGRIND_CALL_NOREDIR_T9
    "move %0, $2\n\t"
    : /*out*/ "=r" (_res)
    : /*in*/ "r" (&_argvec[0])
    : /*trash*/ "memory", __CALLER_SAVED_REGS
);
lval = (__typeof__(lval)) _res;
} while (0)

#define CALL_FN_W_9W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                    arg7,arg8,arg9)
do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[10];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nradrr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    _argvec[9] = (unsigned long)(arg9);
    __asm__ volatile(
        "dsubu $29, $29, 8\n\t"
        "ld $4, 72(%1)\n\t"

```

```

"sd $4, 0($29)\n\t"           \
"ld $4, 8(%1)\n\t"           \
"ld $5, 16(%1)\n\t"          \
"ld $6, 24(%1)\n\t"          \
"ld $7, 32(%1)\n\t"          \
"ld $8, 40(%1)\n\t"          \
"ld $9, 48(%1)\n\t"          \
"ld $10, 56(%1)\n\t"         \
"ld $11, 64(%1)\n\t"         \
"ld $25, 0(%1)\n\t" /* target->t9 */ \
VALGRIND_CALL_NOREDIR_T9      \
"daddu $29, $29, 8\n\t"       \
"move %0, $2\n\t"            \
: /*out*/ "=r" (_res)         \
: /*in*/ "r" (&_argvec[0])   \
: /*trash*/ "memory", __CALLER_SAVED_REGS \
);                               \
lval = (__typeof__(lval)) _res; \
} while (0)

#define CALL_FN_W_10W(lval, orig, arg1,arg2,arg3,arg4,arg5,arg6, \
                      arg7,arg8,arg9,arg10) \
do { \
volatile OrigFn    _orig = (orig); \
volatile unsigned long _argvec[11]; \
volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nraddr; \
_argvec[1] = (unsigned long)(arg1); \
_argvec[2] = (unsigned long)(arg2); \
_argvec[3] = (unsigned long)(arg3); \
_argvec[4] = (unsigned long)(arg4); \
_argvec[5] = (unsigned long)(arg5); \
_argvec[6] = (unsigned long)(arg6); \
_argvec[7] = (unsigned long)(arg7); \
_argvec[8] = (unsigned long)(arg8); \
_argvec[9] = (unsigned long)(arg9); \
_argvec[10] = (unsigned long)(arg10); \
__asm__ volatile( \
"dsubu $29, $29, 16\n\t" \
"ld $4, 72(%1)\n\t" \
"sd $4, 0($29)\n\t" \
"ld $4, 80(%1)\n\t" \
"sd $4, 8($29)\n\t" \
"ld $4, 8(%1)\n\t" \
"ld $5, 16(%1)\n\t" \
"ld $6, 24(%1)\n\t" \
"ld $7, 32(%1)\n\t" \
"ld $8, 40(%1)\n\t" \

```

```

"ld $9, 48(%1)\n\t"          \
"ld $10, 56(%1)\n\t"        \
"ld $11, 64(%1)\n\t"        \
"ld $25, 0(%1)\n\t" /* target->t9 */ \
VALGRIND_CALL_NOREDIR_T9    \
"daddu $29, $29, 16\n\t"     \
"move %0, $2\n\t"           \
: /*out*/ "=r" (_res)        \
: /*in*/ "r" (&_argvec[0])  \
: /*trash*/ "memory", __CALLER_SAVED_REGS \
);                               \
lval = (__typeof__(lval)) _res; \
} while (0)

```

```

#define CALL_FN_W_11W(lval, orig, arg1,arg2,arg3,arg4,arg5, \
                    arg6,arg7,arg8,arg9,arg10, \
                    arg11) \

```

```

do { \
    volatile OrigFn    _orig = (orig); \
    volatile unsigned long _argvec[12]; \
    volatile unsigned long _res; \
    _argvec[0] = (unsigned long)_orig.nradrr; \
    _argvec[1] = (unsigned long)(arg1); \
    _argvec[2] = (unsigned long)(arg2); \
    _argvec[3] = (unsigned long)(arg3); \
    _argvec[4] = (unsigned long)(arg4); \
    _argvec[5] = (unsigned long)(arg5); \
    _argvec[6] = (unsigned long)(arg6); \
    _argvec[7] = (unsigned long)(arg7); \
    _argvec[8] = (unsigned long)(arg8); \
    _argvec[9] = (unsigned long)(arg9); \
    _argvec[10] = (unsigned long)(arg10); \
    _argvec[11] = (unsigned long)(arg11); \
    __asm__ volatile( \
        "dsubu $29, $29, 24\n\t" \
        "ld $4, 72(%1)\n\t" \
        "sd $4, 0($29)\n\t" \
        "ld $4, 80(%1)\n\t" \
        "sd $4, 8($29)\n\t" \
        "ld $4, 88(%1)\n\t" \
        "sd $4, 16($29)\n\t" \
        "ld $4, 8(%1)\n\t" \
        "ld $5, 16(%1)\n\t" \
        "ld $6, 24(%1)\n\t" \
        "ld $7, 32(%1)\n\t" \
        "ld $8, 40(%1)\n\t" \
        "ld $9, 48(%1)\n\t" \
        "ld $10, 56(%1)\n\t" \

```

```

    "ld $11, 64(%1)\n\t"
    "ld $25, 0(%1)\n\t" /* target->t9 */
    VALGRIND_CALL_NOREDIR_T9
    "daddu $29, $29, 24\n\t"
    "move %0, $2\n\t"
    : /*out*/ "=r" (_res)
    : /*in*/ "r" (&_argvec[0])
    : /*trash*/ "memory", __CALLER_SAVED_REGS
);
lval = (__typeof__(lval)) _res;
} while (0)

```

```

#define CALL_FN_W_12W(lval, orig, arg1,arg2,arg3,arg4,arg5,
    arg6,arg7,arg8,arg9,arg10,
    arg11,arg12)

```

```

do {
    volatile OrigFn _orig = (orig);
    volatile unsigned long _argvec[13];
    volatile unsigned long _res;
    _argvec[0] = (unsigned long)_orig.nraddr;
    _argvec[1] = (unsigned long)(arg1);
    _argvec[2] = (unsigned long)(arg2);
    _argvec[3] = (unsigned long)(arg3);
    _argvec[4] = (unsigned long)(arg4);
    _argvec[5] = (unsigned long)(arg5);
    _argvec[6] = (unsigned long)(arg6);
    _argvec[7] = (unsigned long)(arg7);
    _argvec[8] = (unsigned long)(arg8);
    _argvec[9] = (unsigned long)(arg9);
    _argvec[10] = (unsigned long)(arg10);
    _argvec[11] = (unsigned long)(arg11);
    _argvec[12] = (unsigned long)(arg12);
    __asm__ volatile(
        "dsubu $29, $29, 32\n\t"
        "ld $4, 72(%1)\n\t"
        "sd $4, 0($29)\n\t"
        "ld $4, 80(%1)\n\t"
        "sd $4, 8($29)\n\t"
        "ld $4, 88(%1)\n\t"
        "sd $4, 16($29)\n\t"
        "ld $4, 96(%1)\n\t"
        "sd $4, 24($29)\n\t"
        "ld $4, 8(%1)\n\t"
        "ld $5, 16(%1)\n\t"
        "ld $6, 24(%1)\n\t"
        "ld $7, 32(%1)\n\t"
        "ld $8, 40(%1)\n\t"
        "ld $9, 48(%1)\n\t"

```

```

    "ld $10, 56(%1)\n\t"          \
    "ld $11, 64(%1)\n\t"          \
    "ld $25, 0(%1)\n\t" /* target->t9 */ \
    VALGRIND_CALL_NOREDIR_T9      \
    "daddu $29, $29, 32\n\t"      \
    "move %0, $2\n\t"            \
    : /*out*/ "=r" (_res)         \
    : /*in*/ "r" (&_argvec[0])   \
    : /*trash*/ "memory", __CALLER_SAVED_REGS \
);
lval = (__typeof__(lval)) _res;
} while (0)

#endif /* PLAT_mips64_linux */

/* ----- */
/* ARCHITECTURE INDEPENDENT MACROS for CLIENT REQUESTS. */
/* */
/* ----- */

/* Some request codes. There are many more of these, but most are not
exposed to end-user view. These are the public ones, all of the
form 0x1000 + small_number.

Core ones are in the range 0x00000000--0x0000ffff. The non-public
ones start at 0x2000.
*/

/* These macros are used by tools -- they must be public, but don't
embed them into other programs. */
#define VG_USERREQ_TOOL_BASE(a,b) \
((unsigned int)(((a)&0xff) << 24 | ((b)&0xff) << 16))
#define VG_IS_TOOL_USERREQ(a, b, v) \
(VG_USERREQ_TOOL_BASE(a,b) == ((v) & 0xffff0000))

/* !! ABIWARNING !! ABIWARNING !! ABIWARNING !! ABIWARNING !!
This enum comprises an ABI exported by Valgrind to programs
which use client requests. DO NOT CHANGE THE ORDER OF THESE
ENTRIES, NOR DELETE ANY -- add new ones at the end. */
typedef
enum { VG_USERREQ__RUNNING_ON_VALGRIND = 0x1001,
      VG_USERREQ__DISCARD_TRANSLATIONS = 0x1002,

/* These allow any function to be called from the simulated
CPU but run on the real CPU. Nb: the first arg passed to
the function is always the ThreadId of the running
thread! So CLIENT_CALL0 actually requires a 1 arg

```

```

function, etc. */
VG_USERREQ__CLIENT_CALL0 = 0x1101,
VG_USERREQ__CLIENT_CALL1 = 0x1102,
VG_USERREQ__CLIENT_CALL2 = 0x1103,
VG_USERREQ__CLIENT_CALL3 = 0x1104,

/* Can be useful in regression testing suites -- eg. can
   send Valgrind's output to /dev/null and still count
   errors. */
VG_USERREQ__COUNT_ERRORS = 0x1201,

/* Allows the client program and/or gdbserver to execute a monitor
   command. */
VG_USERREQ__GDB_MONITOR_COMMAND = 0x1202,

/* These are useful and can be interpreted by any tool that
   tracks malloc() et al, by using vg_replace_malloc.c. */
VG_USERREQ__MALLOCLIKE_BLOCK = 0x1301,
VG_USERREQ__RESIZEINPLACE_BLOCK = 0x130b,
VG_USERREQ__FREELIKE_BLOCK = 0x1302,
/* Memory pool support. */
VG_USERREQ__CREATE_MEMPOOL = 0x1303,
VG_USERREQ__DESTROY_MEMPOOL = 0x1304,
VG_USERREQ__MEMPOOL_ALLOC = 0x1305,
VG_USERREQ__MEMPOOL_FREE = 0x1306,
VG_USERREQ__MEMPOOL_TRIM = 0x1307,
VG_USERREQ__MOVE_MEMPOOL = 0x1308,
VG_USERREQ__MEMPOOL_CHANGE = 0x1309,
VG_USERREQ__MEMPOOL_EXISTS = 0x130a,

/* Allow printf's to valgrind log. */
/* The first two pass the va_list argument by value, which
   assumes it is the same size as or smaller than a UWord,
   which generally isn't the case. Hence are deprecated.
   The second two pass the vars by reference and so are
   immune to this problem. */
/* both :: char* fmt, va_list vars (DEPRECATED) */
VG_USERREQ__PRINTF = 0x1401,
VG_USERREQ__PRINTF_BACKTRACE = 0x1402,
/* both :: char* fmt, va_list* vars */
VG_USERREQ__PRINTF_VALIST_BY_REF = 0x1403,
VG_USERREQ__PRINTF_BACKTRACE_VALIST_BY_REF = 0x1404,

/* Stack support. */
VG_USERREQ__STACK_REGISTER = 0x1501,
VG_USERREQ__STACK_DEREGISTER = 0x1502,
VG_USERREQ__STACK_CHANGE = 0x1503,

```



```

/* Wine support */
VG_USERREQ__LOAD_PDB_DEBUGINFO = 0x1601,

/* Querying of debug info. */
VG_USERREQ__MAP_IP_TO_SRCLOC = 0x1701,

/* Disable/enable error reporting level. Takes a single
   Word arg which is the delta to this thread's error
   disablement indicator. Hence 1 disables or further
   disables errors, and -1 moves back towards enablement.
   Other values are not allowed. */
VG_USERREQ__CHANGE_ERR_DISABLEMENT = 0x1801,

/* Initialise IR injection */
VG_USERREQ__VEX_INIT_FOR_IRI = 0x1901
} Vg_ClientRequest;

#if !defined(__GNUC__)
# define __extension__ /* */
#endif

/* Returns the number of Valgrinds this code is running under. That
   is, 0 if running natively, 1 if running under Valgrind, 2 if
   running under Valgrind which is running under another Valgrind,
   etc. */
#define RUNNING_ON_VALGRIND \
  (unsigned)VALGRIND_DO_CLIENT_REQUEST_EXPR(0 /* if not */, \
    VG_USERREQ__RUNNING_ON_VALGRIND, \
    0, 0, 0, 0)

/* Discard translation of code in the range [_qzz_addr .. _qzz_addr +
   _qzz_len - 1]. Useful if you are debugging a JITter or some such,
   since it provides a way to make sure valgrind will retranslate the
   invalidated area. Returns no value. */
#define VALGRIND_DISCARD_TRANSLATIONS(_qzz_addr, _qzz_len) \
  VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__DISCARD_TRANSLATIONS, \
    _qzz_addr, _qzz_len, 0, 0, 0)

/* These requests are for getting Valgrind itself to print something.
   Possibly with a backtrace. This is a really ugly hack. The return value
   is the number of characters printed, excluding the "***<pid>*** " part at the
   start and the backtrace (if present). */

#if defined(__GNUC__) || defined(__INTEL_COMPILER) && !defined(_MSC_VER)
/* Modern GCC will optimize the static routine out if unused,

```

```

    and unused attribute will shut down warnings about it. */
static int VALGRIND_PRINTF(const char *format, ...)
    __attribute__((format(__printf__, 1, 2), __unused__));
#endif
static int
#if defined(_MSC_VER)
    __inline
#endif
VALGRIND_PRINTF(const char *format, ...)
{
#if defined(NVALGRIND)
    return 0;
#else /* NVALGRIND */
#if defined(_MSC_VER) || defined(__MINGW64__)
    uintptr_t _qzz_res;
#else
    unsigned long _qzz_res;
#endif
    va_list vargs;
    va_start(vargs, format);
#if defined(_MSC_VER) || defined(__MINGW64__)
    _qzz_res = VALGRIND_DO_CLIENT_REQUEST_EXPR(0,
        VG_USERREQ__PRINTF_VALIST_BY_REF,
        (uintptr_t)format,
        (uintptr_t)&vargs,
        0, 0, 0);
#else
    _qzz_res = VALGRIND_DO_CLIENT_REQUEST_EXPR(0,
        VG_USERREQ__PRINTF_VALIST_BY_REF,
        (unsigned long)format,
        (unsigned long)&vargs,
        0, 0, 0);
#endif
    va_end(vargs);
    return (int)_qzz_res;
#endif /* NVALGRIND */
}

#if defined(__GNUC__) || defined(__INTEL_COMPILER) && !defined(_MSC_VER)
static int VALGRIND_PRINTF_BACKTRACE(const char *format, ...)
    __attribute__((format(__printf__, 1, 2), __unused__));
#endif
static int
#if defined(_MSC_VER)
    __inline
#endif
VALGRIND_PRINTF_BACKTRACE(const char *format, ...)
{

```

```

#if defined(NVALGRIND)
    return 0;
#else /* NVALGRIND */
#if defined(_MSC_VER) || defined(__MINGW64__)
    uintptr_t _qzz_res;
#else
    unsigned long _qzz_res;
#endif
    va_list vargs;
    va_start(vargs, format);
#if defined(_MSC_VER) || defined(__MINGW64__)
    _qzz_res = VALGRIND_DO_CLIENT_REQUEST_EXPR(0,
        VG_USERREQ__PRINTF_BACKTRACE_VALIST_BY_REF,
        (uintptr_t)format,
        (uintptr_t)&vargs,
        0, 0, 0);
#else
    _qzz_res = VALGRIND_DO_CLIENT_REQUEST_EXPR(0,
        VG_USERREQ__PRINTF_BACKTRACE_VALIST_BY_REF,
        (unsigned long)format,
        (unsigned long)&vargs,
        0, 0, 0);
#endif
    va_end(vargs);
    return (int)_qzz_res;
#endif /* NVALGRIND */
}

```

/\* These requests allow control to move from the simulated CPU to the real CPU, calling an arbitrary function.

Note that the current ThreadId is inserted as the first argument.

So this call:

```
VALGRIND_NON_SIMD_CALL2(f, arg1, arg2)
```

requires f to have this signature:

```
Word f(Word tid, Word arg1, Word arg2)
```

where "Word" is a word-sized type.

Note that these client requests are not entirely reliable. For example, if you call a function with them that subsequently calls printf(), there's a high chance Valgrind will crash. Generally, your prospects of these working are made higher if the called function does not refer to any global variables, and does not refer to any libc or other functions

(printf et al). Any kind of entanglement with libc or dynamic linking is likely to have a bad outcome, for tricky reasons which we've grappled with a lot in the past.

```
*/
#define VALGRIND_NON_SIMD_CALL0(_qyy_fn) \
    VALGRIND_DO_CLIENT_REQUEST_EXPR(0 /* default return */, \
        VG_USERREQ__CLIENT_CALL0, \
        _qyy_fn, \
        0, 0, 0, 0)

#define VALGRIND_NON_SIMD_CALL1(_qyy_fn, _qyy_arg1) \
    VALGRIND_DO_CLIENT_REQUEST_EXPR(0 /* default return */, \
        VG_USERREQ__CLIENT_CALL1, \
        _qyy_fn, \
        _qyy_arg1, 0, 0, 0)

#define VALGRIND_NON_SIMD_CALL2(_qyy_fn, _qyy_arg1, _qyy_arg2) \
    VALGRIND_DO_CLIENT_REQUEST_EXPR(0 /* default return */, \
        VG_USERREQ__CLIENT_CALL2, \
        _qyy_fn, \
        _qyy_arg1, _qyy_arg2, 0, 0)

#define VALGRIND_NON_SIMD_CALL3(_qyy_fn, _qyy_arg1, _qyy_arg2, _qyy_arg3) \
    VALGRIND_DO_CLIENT_REQUEST_EXPR(0 /* default return */, \
        VG_USERREQ__CLIENT_CALL3, \
        _qyy_fn, \
        _qyy_arg1, _qyy_arg2, \
        _qyy_arg3, 0)
```

/\* Counts the number of errors that have been recorded by a tool. Nb: the tool must record the errors with VG\_(maybe\_record\_error)() or VG\_(unique\_error)() for them to be counted. \*/

```
#define VALGRIND_COUNT_ERRORS \
    (unsigned)VALGRIND_DO_CLIENT_REQUEST_EXPR( \
        0 /* default return */, \
        VG_USERREQ__COUNT_ERRORS, \
        0, 0, 0, 0, 0)
```

/\* Several Valgrind tools (Memcheck, Massif, Helgrind, DRD) rely on knowing when heap blocks are allocated in order to give accurate results. This happens automatically for the standard allocator functions such as malloc(), calloc(), realloc(), memalign(), new, new[], free(), delete, delete[], etc.

But if your program uses a custom allocator, this doesn't automatically happen, and Valgrind will not do as well. For example, if you allocate superblocks with mmap() and then allocates chunks of the superblocks, all

Valgrind's observations will be at the `mmap()` level and it won't know that the chunks should be considered separate entities. In Memcheck's case, that means you probably won't get heap block overrun detection (because there won't be redzones marked as unaddressable) and you definitely won't get any leak detection.

The following client requests allow a custom allocator to be annotated so that it can be handled accurately by Valgrind.

`VALGRIND_MALLOCLIKE_BLOCK` marks a region of memory as having been allocated by a `malloc()`-like function. For Memcheck (an illustrative case), this does two things:

- It records that the block has been allocated. This means any addresses within the block mentioned in error messages will be identified as belonging to the block. It also means that if the block isn't freed it will be detected by the leak checker.
- It marks the block as being addressable and undefined (if `'is_zeroed'` is not set), or addressable and defined (if `'is_zeroed'` is set). This controls how accesses to the block by the program are handled.

`'addr'` is the start of the usable block (ie. after any redzone), `'sizeB'` is its size. `'rzB'` is the redzone size if the allocator can apply redzones -- these are blocks of padding at the start and end of each block. Adding redzones is recommended as it makes it much more likely Valgrind will spot block overruns. `'is_zeroed'` indicates if the memory is zeroed (or filled with another predictable value), as is the case for `calloc()`.

`VALGRIND_MALLOCLIKE_BLOCK` should be put immediately after the point where a heap block -- that will be used by the client program -- is allocated.

It's best to put it at the outermost level of the allocator if possible; for example, if you have a function `my_alloc()` which calls `internal_alloc()`, and the client request is put inside `internal_alloc()`, stack traces relating to the heap block will contain entries for both `my_alloc()` and `internal_alloc()`, which is probably not what you want.

For Memcheck users: if you use `VALGRIND_MALLOCLIKE_BLOCK` to carve out custom blocks from within a heap block, `B`, that has been allocated with `malloc/calloc/new/etc`, then block `B` will be *ignored* during leak-checking -- the custom blocks will take precedence.

`VALGRIND_FREELIKE_BLOCK` is the partner to `VALGRIND_MALLOCLIKE_BLOCK`. For Memcheck, it does two things:

- It records that the block has been deallocated. This assumes that the block was annotated as having been allocated via

VALGRIND\_MALLOCLIKE\_BLOCK. Otherwise, an error will be issued.

- It marks the block as being unaddressable.

VALGRIND\_FREELIKE\_BLOCK should be put immediately after the point where a heap block is deallocated.

VALGRIND\_RESIZEINPLACE\_BLOCK informs a tool about reallocation. For Memcheck, it does four things:

- It records that the size of a block has been changed. This assumes that the block was annotated as having been allocated via VALGRIND\_MALLOCLIKE\_BLOCK. Otherwise, an error will be issued.
- If the block shrunk, it marks the freed memory as being unaddressable.
- If the block grew, it marks the new area as undefined and defines a red zone past the end of the new block.
- The V-bits of the overlap between the old and the new block are preserved.

VALGRIND\_RESIZEINPLACE\_BLOCK should be put after allocation of the new block and before deallocation of the old block.

In many cases, these three client requests will not be enough to get your allocator working well with Memcheck. More specifically, if your allocator writes to freed blocks in any way then a VALGRIND\_MAKE\_MEM\_UNDEFINED call will be necessary to mark the memory as addressable just before the zeroing occurs, otherwise you'll get a lot of invalid write errors. For example, you'll need to do this if your allocator recycles freed blocks, but it zeroes them before handing them back out (via VALGRIND\_MALLOCLIKE\_BLOCK). Alternatively, if your allocator reuses freed blocks for allocator-internal data structures, VALGRIND\_MAKE\_MEM\_UNDEFINED calls will also be necessary.

Really, what's happening is a blurring of the lines between the client program and the allocator... after VALGRIND\_FREELIKE\_BLOCK is called, the memory should be considered unaddressable to the client program, but the allocator knows more than the rest of the client program and so may be able to safely access it. Extra client requests are necessary for Valgrind to understand the distinction between the allocator and the rest of the program.

Ignored if `addr == 0`.

\*/

```
#define VALGRIND_MALLOCLIKE_BLOCK(addr, sizeB, rzB, is_zeroed) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MALLOCLIKE_BLOCK, \
        addr, sizeB, rzB, is_zeroed, 0)
```

```

/* See the comment for VALGRIND_MALLOCLIKE_BLOCK for details.
   Ignored if addr == 0.
*/
#define VALGRIND_RESIZEINPLACE_BLOCK(addr, oldSizeB, newSizeB, rzB) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__RESIZEINPLACE_BLOCK, \
        addr, oldSizeB, newSizeB, rzB, 0)

/* See the comment for VALGRIND_MALLOCLIKE_BLOCK for details.
   Ignored if addr == 0.
*/
#define VALGRIND_FREELIKE_BLOCK(addr, rzB) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__FREELIKE_BLOCK, \
        addr, rzB, 0, 0, 0)

/* Create a memory pool. */
#define VALGRIND_CREATE_MEMPOOL(pool, rzB, is_zeroed) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__CREATE_MEMPOOL, \
        pool, rzB, is_zeroed, 0, 0)

/* Destroy a memory pool. */
#define VALGRIND_DESTROY_MEMPOOL(pool) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__DESTROY_MEMPOOL, \
        pool, 0, 0, 0, 0)

/* Associate a piece of memory with a memory pool. */
#define VALGRIND_MEMPOOL_ALLOC(pool, addr, size) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MEMPOOL_ALLOC, \
        pool, addr, size, 0, 0)

/* Disassociate a piece of memory from a memory pool. */
#define VALGRIND_MEMPOOL_FREE(pool, addr) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MEMPOOL_FREE, \
        pool, addr, 0, 0, 0)

/* Disassociate any pieces outside a particular range. */
#define VALGRIND_MEMPOOL_TRIM(pool, addr, size) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MEMPOOL_TRIM, \
        pool, addr, size, 0, 0)

/* Resize and/or move a piece associated with a memory pool. */
#define VALGRIND_MOVE_MEMPOOL(poolA, poolB) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MOVE_MEMPOOL, \
        poolA, poolB, 0, 0, 0)

/* Resize and/or move a piece associated with a memory pool. */
#define VALGRIND_MEMPOOL_CHANGE(pool, addrA, addrB, size) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__MEMPOOL_CHANGE, \
        pool, addrA, addrB, size, 0)

```

```

/* Return 1 if a mempool exists, else 0. */
#define VALGRIND_MEMPOOL_EXISTS(pool) \
    (unsigned)VALGRIND_DO_CLIENT_REQUEST_EXPR(0, \
        VG_USERREQ__MEMPOOL_EXISTS, \
        pool, 0, 0, 0, 0)

/* Mark a piece of memory as being a stack. Returns a stack id.
start is the lowest addressable stack byte, end is the highest
addressable stack byte. */
#define VALGRIND_STACK_REGISTER(start, end) \
    (unsigned)VALGRIND_DO_CLIENT_REQUEST_EXPR(0, \
        VG_USERREQ__STACK_REGISTER, \
        start, end, 0, 0, 0)

/* Unmark the piece of memory associated with a stack id as being a
stack. */
#define VALGRIND_STACK_DEREGISTER(id) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__STACK_DEREGISTER, \
        id, 0, 0, 0, 0)

/* Change the start and end address of the stack id.
start is the new lowest addressable stack byte, end is the new highest
addressable stack byte. */
#define VALGRIND_STACK_CHANGE(id, start, end) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__STACK_CHANGE, \
        id, start, end, 0, 0)

/* Load PDB debug info for Wine PE image_map. */
#define VALGRIND_LOAD_PDB_DEBUGINFO(fd, ptr, total_size, delta) \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__LOAD_PDB_DEBUGINFO, \
        fd, ptr, total_size, delta, 0)

/* Map a code address to a source file name and line number. buf64
must point to a 64-byte buffer in the caller's address space. The
result will be dumped in there and is guaranteed to be zero
terminated. If no info is found, the first byte is set to zero. */
#define VALGRIND_MAP_IP_TO_SRCLOC(addr, buf64) \
    (unsigned)VALGRIND_DO_CLIENT_REQUEST_EXPR(0, \
        VG_USERREQ__MAP_IP_TO_SRCLOC, \
        addr, buf64, 0, 0, 0)

/* Disable error reporting for this thread. Behaves in a stack like
way, so you can safely call this multiple times provided that
VALGRIND_ENABLE_ERROR_REPORTING is called the same number of times
to re-enable reporting. The first call of this macro disables
reporting. Subsequent calls have no effect except to increase the
number of VALGRIND_ENABLE_ERROR_REPORTING calls needed to re-enable

```



```

reporting. Child threads do not inherit this setting from their
parents -- they are always created with reporting enabled. */
#define VALGRIND_DISABLE_ERROR_REPORTING \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__CHANGE_ERR_DISABLEMENT, \
        1, 0, 0, 0, 0)

/* Re-enable error reporting, as per comments on
VALGRIND_DISABLE_ERROR_REPORTING. */
#define VALGRIND_ENABLE_ERROR_REPORTING \
    VALGRIND_DO_CLIENT_REQUEST_STMT(VG_USERREQ__CHANGE_ERR_DISABLEMENT, \
        -1, 0, 0, 0, 0)

/* Execute a monitor command from the client program.
If a connection is opened with GDB, the output will be sent
according to the output mode set for vgdb.
If no connection is opened, output will go to the log output.
Returns 1 if command not recognised, 0 otherwise. */
#define VALGRIND_MONITOR_COMMAND(command) \
    VALGRIND_DO_CLIENT_REQUEST_EXPR(0, VG_USERREQ__GDB_MONITOR_COMMAND, \
        command, 0, 0, 0, 0)

#undef PLAT_x86_darwin
#undef PLAT_amd64_darwin
#undef PLAT_x86_win32
#undef PLAT_amd64_win64
#undef PLAT_x86_linux
#undef PLAT_amd64_linux
#undef PLAT_ppc32_linux
#undef PLAT_ppc64be_linux
#undef PLAT_ppc64le_linux
#undef PLAT_arm_linux
#undef PLAT_s390x_linux
#undef PLAT_mips32_linux
#undef PLAT_mips64_linux

#endif /* __VALGRIND_H */
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```

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## 1.273 vim 7.4.481

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\*uganda.txt\*    For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

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---

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

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

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

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

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

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and

households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

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

\*donate\*

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

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

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

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

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

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

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

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy

10238-168 Street

Surrey, B.C. V4N 1Z4

Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

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

vim:tw=78:ts=8:ft=help:norl:

## 1.274 webmin 1.62

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## 1.281 xmlsec 2.0.5

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## 1.283 xtrans 1.3.5

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```
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# include <config.h>
#endif

#include "getopt.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#ifdef __VMS
# include <unixlib.h>
#endif

/* Completely disable NLS for getopt. We won't include translations for it
   anyway. If the system lacks getopt_long, missing translations probably
   aren't a problem. */
/*
#ifdef _LIBC
# include <libintl.h>
#else
# include "gettext.h"
# define _(msgid) gettext (msgid)
#endif
*/
#define _(msgid) (msgid)

#if defined _LIBC && defined USE_IN_LIBIO
# include <wchar.h>
#endif

#ifndef attribute_hidden
# define attribute_hidden
#endif

/* Unlike standard Unix `getopt', functions like `getopt_long'
   let the user intersperse the options with the other arguments.

   As `getopt_long' works, it permutes the elements of ARGV so that,
   when it is done, all the options precede everything else. Thus
   all application programs are extended to handle flexible argument order.

   Using `getopt' or setting the environment variable POSIXLY_CORRECT
   disables permutation.
```

Then the application's behavior is completely standard.

GNU application programs can use a third alternative mode in which they can distinguish the relative order of options and other arguments. \*/

```
#include "getopt_int.h"
```

```
/* For communication from `getopt' to the caller.
   When `getopt' finds an option that takes an argument,
   the argument value is returned here.
   Also, when `ordering' is RETURN_IN_ORDER,
   each non-option ARGV-element is returned here. */
```

```
char *optarg;
```

```
/* Index in ARGV of the next element to be scanned.
   This is used for communication to and from the caller
   and for communication between successive calls to `getopt'.
```

On entry to `getopt', zero means this is the first call; initialize.

When `getopt' returns -1, this is the index of the first of the non-option elements that the caller should itself scan.

Otherwise, `optind' communicates from one call to the next how much of ARGV has been scanned so far. \*/

```
/* 1003.2 says this must be 1 before any call. */
```

```
int optind = 1;
```

```
/* Callers store zero here to inhibit the error message
   for unrecognized options. */
```

```
int opterr = 1;
```

```
/* Set to an option character which was unrecognized.
   This must be initialized on some systems to avoid linking in the
   system's own getopt implementation. */
```

```
int optopt = '?';
```

```
/* Keep a global copy of all internal members of getopt_data. */
```

```
static struct _getopt_data getopt_data;
```

```
#if defined HAVE_DECL_GETENV && !HAVE_DECL_GETENV
```

```
extern char *getenv ();
```

```

#endif

#ifdef _LIBC
/* Stored original parameters.
   XXX This is no good solution. We should rather copy the args so
   that we can compare them later. But we must not use malloc(3). */
extern int __libc_argc;
extern char **__libc_argv;

/* Bash 2.0 gives us an environment variable containing flags
   indicating ARGV elements that should not be considered arguments. */

# ifdef USE_NONOPTION_FLAGS
/* Defined in getopt_init.c */
extern char *__getopt_nonoption_flags;
# endif

# ifdef USE_NONOPTION_FLAGS
#  define SWAP_FLAGS(ch1, ch2) \
  if (d->__nonoption_flags_len > 0) \
  { \
    char __tmp = __getopt_nonoption_flags[ch1]; \
    __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2]; \
    __getopt_nonoption_flags[ch2] = __tmp; \
  }
# else
#  define SWAP_FLAGS(ch1, ch2)
# endif
#else /* !_LIBC */
# define SWAP_FLAGS(ch1, ch2)
#endif /* _LIBC */

/* Exchange two adjacent subsequences of ARGV.
   One subsequence is elements [first_nonopt,last_nonopt)
   which contains all the non-options that have been skipped so far.
   The other is elements [last_nonopt,optind), which contains all
   the options processed since those non-options were skipped.

   `first_nonopt' and `last_nonopt' are relocated so that they describe
   the new indices of the non-options in ARGV after they are moved. */

static void
exchange (char **argv, struct _getopt_data *d)
{
  int bottom = d->__first_nonopt;
  int middle = d->__last_nonopt;
  int top = d->optind;
  char *tem;

```



```

/* Exchange the shorter segment with the far end of the longer segment.
   That puts the shorter segment into the right place.
   It leaves the longer segment in the right place overall,
   but it consists of two parts that need to be swapped next. */

#if defined _LIBC && defined USE_NONOPTION_FLAGS
/* First make sure the handling of the `__getopt_nonoption_flags'
   string can work normally. Our top argument must be in the range
   of the string. */
if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
{
    /* We must extend the array. The user plays games with us and
       presents new arguments. */
    char *new_str = malloc (top + 1);
    if (new_str == NULL)
d->__nonoption_flags_len = d->__nonoption_flags_max_len = 0;
    else
    {
        memset (__mempcpy (new_str, __getopt_nonoption_flags,
                           d->__nonoption_flags_max_len),
                '\0', top + 1 - d->__nonoption_flags_max_len);
        d->__nonoption_flags_max_len = top + 1;
        __getopt_nonoption_flags = new_str;
    }
}
#endif

while (top > middle && middle > bottom)
{
    if (top - middle > middle - bottom)
    {
        /* Bottom segment is the short one. */
        int len = middle - bottom;
        register int i;

        /* Swap it with the top part of the top segment. */
        for (i = 0; i < len; i++)
        {
            tem = argv[bottom + i];
            argv[bottom + i] = argv[top - (middle - bottom) + i];
            argv[top - (middle - bottom) + i] = tem;
            SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
        }
        /* Exclude the moved bottom segment from further swapping. */
        top -= len;
    }
    else

```

```

{
/* Top segment is the short one. */
int len = top - middle;
register int i;

/* Swap it with the bottom part of the bottom segment. */
for (i = 0; i < len; i++)
{
    tem = argv[bottom + i];
    argv[bottom + i] = argv[middle + i];
    argv[middle + i] = tem;
    SWAP_FLAGS (bottom + i, middle + i);
}
/* Exclude the moved top segment from further swapping. */
bottom += len;
}
}

/* Update records for the slots the non-options now occupy. */

d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made. */

static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
    int posixly_correct, struct _getopt_data *d)
{
/* Start processing options with ARGV-element 1 (since ARGV-element 0
    is the program name); the sequence of previously skipped
    non-option ARGV-elements is empty. */

d->__first_nonopt = d->__last_nonopt = d->optind;

d->__nextchar = NULL;

d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if (optstring[0] == '-')
{
    d->__ordering = RETURN_IN_ORDER;
    ++optstring;
}
else if (optstring[0] == '+')

```

```

    {
        d->__ordering = REQUIRE_ORDER;
        ++optstring;
    }
else if (d->__posixly_correct)
    d->__ordering = REQUIRE_ORDER;
else
    d->__ordering = PERMUTE;

#ifdef _LIBC && defined USE_NONOPTION_FLAGS
if (!d->__posixly_correct
    && argc == __libc_argc && argv == __libc_argv)
    {
        if (d->__nonoption_flags_max_len == 0)
        {
            if (__getopt_nonoption_flags == NULL
                || __getopt_nonoption_flags[0] == '\0')
                d->__nonoption_flags_max_len = -1;
            else
            {
                const char *orig_str = __getopt_nonoption_flags;
                int len = d->__nonoption_flags_max_len = strlen (orig_str);
                if (d->__nonoption_flags_max_len < argc)
                    d->__nonoption_flags_max_len = argc;
                __getopt_nonoption_flags =
                    (char *) malloc (d->__nonoption_flags_max_len);
                if (__getopt_nonoption_flags == NULL)
                    d->__nonoption_flags_max_len = -1;
                else
                    memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
                        '\0', d->__nonoption_flags_max_len - len);
            }
        }
        d->__nonoption_flags_len = d->__nonoption_flags_max_len;
    }
else
    d->__nonoption_flags_len = 0;
#endif

return optstring;
}

/* Scan elements of ARGV (whose length is ARGV) for option characters
given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--",
then it is an option element.  The characters of this element
(aside from the initial '-') are option characters.  If `getopt'

```

is called repeatedly, it returns successively each of the option characters from each of the option elements.

If ``getopt'` finds another option character, it returns that character, updating ``optind'` and ``nextchar'` so that the next call to ``getopt'` can resume the scan with the following option character or ARGV-element.

If there are no more option characters, ``getopt'` returns -1. Then ``optind'` is the index in ARGV of the first ARGV-element that is not an option. (The ARGV-elements have been permuted so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters. If an option character is seen that is not listed in OPTSTRING, return '?' after printing an error message. If you set ``opterr'` to zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in ``optarg'`. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in ``optarg'`, otherwise ``optarg'` is set to zero.

If OPTSTRING starts with ``-'` or ``+'`, it requests different methods of handling the non-option ARGV-elements. See the comments about RETURN\_IN\_ORDER and REQUIRE\_ORDER, above.

Long-named options begin with ``--'` instead of ``-'`. Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a ``='`, or else the in next ARGV-element. When ``getopt'` finds a long-named option, it returns 0 if that option's ``flag'` field is nonzero, the value of the option's ``val'` field if the ``flag'` field is zero.

LONGOPTS is a vector of ``struct option'` terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found. It is only valid when a long-named option has been found by the most recent call.

If LONG\_ONLY is nonzero, ``-'` as well as ``--'` can introduce long-named options.

If POSIXLY\_CORRECT is nonzero, behave as if the POSIXLY\_CORRECT environment variable were set. \*/

```

int
_getopt_internal_r (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct, struct _getopt_data *d)
{
    int print_errors = d->opterr;
    if (optstring[0] == ':')
        print_errors = 0;

    if (argc < 1)
        return -1;

    d->optarg = NULL;

    if (d->optind == 0 || !d->__initialized)
    {
        if (d->optind == 0)
            d->optind = 1; /* Don't scan ARGV[0], the program name. */
        optstring = _getopt_initialize (argc, argv, optstring,
            posixly_correct, d);
        d->__initialized = 1;
    }

    /* Test whether ARGV[optind] points to a non-option argument.
       Either it does not have option syntax, or there is an environment flag
       from the shell indicating it is not an option. The later information
       is only used when the used in the GNU libc. */
    #if defined _LIBC && defined USE_NONOPTION_FLAGS
    # define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0' \
        || (d->optind < d->__nonoption_flags_len \
        && __getopt_nonoption_flags[d->optind] == '1'))
    #else
    # define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0')
    #endif

    if (d->__nextchar == NULL || *d->__nextchar == '\0')
    {
        /* Advance to the next ARGV-element. */

        /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
           moved back by the user (who may also have changed the arguments). */
        if (d->__last_nonopt > d->optind)
            d->__last_nonopt = d->optind;
        if (d->__first_nonopt > d->optind)
            d->__first_nonopt = d->optind;

        if (d->__ordering == PERMUTE)

```

```

{
/* If we have just processed some options following some non-options,
   exchange them so that the options come first. */

if (d->__first_nonopt != d->__last_nonopt
    && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
else if (d->__last_nonopt != d->optind)
    d->__first_nonopt = d->optind;

/* Skip any additional non-options
   and extend the range of non-options previously skipped. */

while (d->optind < argc && NONOPTION_P)
    d->optind++;
d->__last_nonopt = d->optind;
}

/* The special ARGV-element '--' means premature end of options.
Skip it like a null option,
then exchange with previous non-options as if it were an option,
then skip everything else like a non-option. */

if (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
d->optind++;

if (d->__first_nonopt != d->__last_nonopt
    && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
else if (d->__first_nonopt == d->__last_nonopt)
    d->__first_nonopt = d->optind;
d->__last_nonopt = argc;

d->optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */

if (d->optind == argc)
{
/* Set the next-arg-index to point at the non-options
   that we previously skipped, so the caller will digest them. */
if (d->__first_nonopt != d->__last_nonopt)
    d->optind = d->__first_nonopt;
return -1;
}
}

```

```

    /* If we have come to a non-option and did not permute it,
    either stop the scan or describe it to the caller and pass it by. */

    if (NONOPTION_P)
    {
    if (d->__ordering == REQUIRE_ORDER)
        return -1;
    d->optarg = argv[d->optind++];
    return 1;
    }

    /* We have found another option-ARGV-element.
    Skip the initial punctuation. */

    d->__nextchar = (argv[d->optind] + 1
    + (longopts != NULL && argv[d->optind][1] == '-'));
    }

    /* Decode the current option-ARGV-element. */

    /* Check whether the ARGV-element is a long option.

    If long_only and the ARGV-element has the form "-f", where f is
    a valid short option, don't consider it an abbreviated form of
    a long option that starts with f. Otherwise there would be no
    way to give the -f short option.

    On the other hand, if there's a long option "fubar" and
    the ARGV-element is "-fu", do consider that an abbreviation of
    the long option, just like "--fu", and not "-f" with arg "u".

    This distinction seems to be the most useful approach. */

    if (longopts != NULL
        && (argv[d->optind][1] == '-'
        || (long_only && (argv[d->optind][2]
            || !strchr (optstring, argv[d->optind][1])))))
    {
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = -1;
    int option_index;

    for (nameend = d->__nextchar; *nameend && *nameend != '='; nameend++)

```

```

/* Do nothing. */ ;

/* Test all long options for either exact match
or abbreviated matches. */
for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strcmp (p->name, d->__nextchar, nameend - d->__nextchar))
{
    if ((unsigned int) (nameend - d->__nextchar)
== (unsigned int) strlen (p->name))
    {
/* Exact match found. */
pfound = p;
indfound = option_index;
exact = 1;
break;
    }
    else if (pfound == NULL)
    {
/* First nonexact match found. */
pfound = p;
indfound = option_index;
    }
    else if (long_only
|| pfound->has_arg != p->has_arg
|| pfound->flag != p->flag
|| pfound->val != p->val)
/* Second or later nonexact match found. */
ambig = 1;
}

if (ambig && !exact)
{
if (print_errors)
{
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf, _("%s: option '%s' is ambiguous\n"),
argv[0], argv[d->optind]) >= 0)
{
_IO_flockfile (stderr);

int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

__fxprintf (NULL, "%s", buf);

((_IO_FILE *) stderr)->_flags2 = old_flags2;

```





```

{
    /* +option or -option */
    #if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("
%s: option `%c%s' doesn't allow an argument\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
    #else
        fprintf (stderr, _("
%s: option `%c%s' doesn't allow an argument\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
    #endif
}

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif

    d->__nextchar += strlen (d->__nextchar);

    d->optopt = pfound->val;
    return '?';
}
}
else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
        d->optarg = argv[d->optind++];
    else
    {
        if (print_errors)
        {

```

```

#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (__asprintf (&buf, _("
%s: option `%'s' requires an argument\n"),
        argv[0], argv[d->optind - 1]) >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#else
    fprintf (stderr,
        _("%s: option `%'s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
    }
    d->__nextchar += strlen (d->__nextchar);
    d->optopt = pfound->val;
    return optstring[0] == ':' ? ':' : '?';
}
}
d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)
    *longind = option_index;
if (pfound->flag)
    {
        *(pfound->flag) = pfound->val;
        return 0;
    }
return pfound->val;
}

/* Can't find it as a long option.  If this is not getopt_long_only,
or the option starts with '--' or is not a valid short
option, then it's an error.
Otherwise interpret it as a short option. */
if (!long_only || argv[d->optind][1] == '-')
    || strchr (optstring, *d->__nextchar) == NULL)

```

```

{
  if (print_errors)
  {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
#endif

    if (argv[d->optind][1] == '-')
    {
      /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("%s: unrecognized option `--%s'\n"),
            argv[0], d->__nextchar);
#else
        fprintf (stderr, _("%s: unrecognized option `--%s'\n"),
            argv[0], d->__nextchar);
#endif
    }
    else
    {
      /* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("%s: unrecognized option `%c%s'\n"),
            argv[0], argv[d->optind][0], d->__nextchar);
#else
        fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
            argv[0], argv[d->optind][0], d->__nextchar);
#endif
    }

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
      _IO_flockfile (stderr);

      int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
      ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

      __fxprintf (NULL, "%s", buf);

      ((_IO_FILE *) stderr)->_flags2 = old_flags2;
      _IO_funlockfile (stderr);

      free (buf);
    }
#endif
  }
}

```

```

d->__nextchar = (char *) "";
d->optind++;
d->optopt = 0;
return '?';
}
}

/* Look at and handle the next short option-character. */

{
char c = *d->__nextchar++;
char *temp = strchr (optstring, c);

/* Increment `optind' when we start to process its last character. */
if (*d->__nextchar == '\0')
    ++d->optind;

if (temp == NULL || c == ':')
    {
if (print_errors)
    {
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;
        int n;
#endif

        if (d->__posixly_correct)
            {
/* 1003.2 specifies the format of this message. */
#ifdef _LIBC && defined USE_IN_LIBIO
            n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
                argv[0], c);
#else
            fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
            #endif
            }
        else
            {
#ifdef _LIBC && defined USE_IN_LIBIO
            n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
                argv[0], c);
#else
            fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
            #endif
            }

#ifdef _LIBC && defined USE_IN_LIBIO
            if (n >= 0)

```

```

    {
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
    }
#endif
}
d->optopt = c;
return '?';
}
/* Convenience. Treat POSIX -W foo same as long option --foo */
if (temp[0] == 'W' && temp[1] == ';')
{
char *nameend;
const struct option *p;
const struct option *pfound = NULL;
int exact = 0;
int ambig = 0;
int indfound = 0;
int option_index;

/* This is an option that requires an argument. */
if (*d->__nextchar != '\0')
{
d->optarg = d->__nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
d->optind++;
}
else if (d->optind == argc)
{
if (print_errors)
{
/* 1003.2 specifies the format of this message. */
#ifdef _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf,
_("%s: option requires an argument -- %c\n"),
argv[0], c) >= 0)

```

```

{
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
}
#else
fprintf (stderr, _("%s: option requires an argument -- %c\n"),
        argv[0], c);
#endif
    }
    d->optopt = c;
    if (optstring[0] == ':')
        c = ':';
    else
        c = '?';
    return c;
}
else
    /* We already incremented `d->optind' once;
       increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];

    /* optarg is now the argument, see if it's in the
       table of longopts. */

    for (d->__nextchar = nameend = d->optarg; *nameend && *nameend != '=';
         nameend++)
        /* Do nothing. */ ;

    /* Test all long options for either exact match
       or abbreviated matches. */
    for (p = longopts, option_index = 0; p->name; p++, option_index++)
        if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
            {
                if (((unsigned int) (nameend - d->__nextchar) == strlen (p->name))
                    {
                        /* Exact match found. */
                        pfound = p;
                        indfound = option_index;
                        exact = 1;
                    }
                }
            }

```

```

    break;
}
    else if (pfound == NULL)
{
    /* First nonexact match found. */
    pfound = p;
    indfound = option_index;
}
    else
/* Second or later nonexact match found. */
    ambig = 1;
}
if (ambig && !exact)
{
    if (print_errors)
    {
#ifdef defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (__asprintf (&buf, _("%s: option `-%s' is ambiguous\n"),
        argv[0], argv[d->optind]) >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
    fprintf (stderr, _("%s: option `-%s' is ambiguous\n"),
        argv[0], argv[d->optind]);
}
#ifdef defined
}
d->__nextchar += strlen (d->__nextchar);
d->optind++;
return '?';
}
if (pfound != NULL)
{
    option_index = indfound;
    if (*nameend)
    {

```



```

/* Don't test has_arg with >, because some C compilers don't
   allow it to be used on enums. */
if (pfound->has_arg)
    d->optarg = nameend + 1;
else
    {
        if (print_errors)
            {
#ifdef _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("`
%s: option `-%s' doesn't allow an argument\n"),
                    argv[0], pfound->name) >= 0)
                    {
                        _IO_flockfile (stderr);

                        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                        ((_IO_FILE *) stderr)->_flags2
                            |= _IO_FLAGS2_NOTCANCEL;

                        __fxprintf (NULL, "%s", buf);

                        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                        _IO_funlockfile (stderr);

                        free (buf);
                    }
#else
                fprintf (stderr, _("`
%s: option `-%s' doesn't allow an argument\n"),
                    argv[0], pfound->name);
#endif
            }
        }

    d->__nextchar += strlen (d->__nextchar);
    return '?';
}
}
else if (pfound->has_arg == 1)
    {
        if (d->optind < argc)
            d->optarg = argv[d->optind++];
        else
            {
                if (print_errors)
                    {
#ifdef _LIBC && defined USE_IN_LIBIO

```

```

char *buf;

if (__asprintf (&buf, _("
%s: option `%' requires an argument\n"),
    argv[0], argv[d->optind - 1]) >= 0)
{
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2
        |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
}
#else
fprintf (stderr,
    _("%s: option `%' requires an argument\n"),
    argv[0], argv[d->optind - 1]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
return optstring[0] == ':' ? ':' : '?';
}
}
d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)
    *longind = option_index;
if (pfound->flag)
{
*(pfound->flag) = pfound->val;
return 0;
}
return pfound->val;
}
d->__nextchar = NULL;
return 'W'; /* Let the application handle it. */
}
if (temp[1] == ':')
{
if (temp[2] == ':')
{
/* This is an option that accepts an argument optionally. */
if (*d->__nextchar != '\0')

```

```

    {
d->optarg = d->__nextchar;
d->optind++;
    }
    else
        d->optarg = NULL;
        d->__nextchar = NULL;
    }
else
    {
        /* This is an option that requires an argument. */
        if (*d->__nextchar != '\0')
            {
d->optarg = d->__nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
d->optind++;
            }
            else if (d->optind == argc)
                {
if (print_errors)
                {
                    /* 1003.2 specifies the format of this message. */
#ifdef defined _LIBC && defined USE_IN_LIBIO
                    char *buf;

                    if (__asprintf (&buf, _("\\
%s: option requires an argument -- %c\\n"),
                        argv[0], c) >= 0)
                        {
                            _IO_flockfile (stderr);

                            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

                            __fxprintf (NULL, "%s", buf);

                            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                            _IO_funlockfile (stderr);

                            free (buf);
                        }
#endif
                }
            }
#else
        fprintf (stderr,
            _("%s: option requires an argument -- %c\\n"),
            argv[0], c);
#endif
    }
}

```

```

d->optopt = c;
if (optstring[0] == ':')
    c = ':';
else
    c = '?';
    }
else
    /* We already incremented `optind' once;
increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];
    d->__nextchar = NULL;
    }
    }
return c;
}
}

int
_getopt_internal (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct)
{
int result;

getopt_data.optind = optind;
getopt_data.opterr = opterr;

result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
    long_only, posixly_correct, &getopt_data);

optind = getopt_data.optind;
optarg = getopt_data.optarg;
optopt = getopt_data.optopt;

return result;
}

/* glibc gets a LSB-compliant getopt.
Standalone applications get a POSIX-compliant getopt. */
#ifdef _LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

int
getopt (int argc, char *const *argv, const char *optstring)
{

```

```
return _getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,  
    POSIXLY_CORRECT);  
}
```

```
#ifdef TEST
```

```
/* Compile with -DTEST to make an executable for use in testing  
the above definition of `getopt'. */
```

```
int  
main (int argc, char **argv)  
{  
    int c;  
    int digit_optind = 0;  
  
    while (1)  
    {  
        int this_option_optind = optind ? optind : 1;  
  
        c = getopt (argc, argv, "abc:d:0123456789");  
        if (c == -1)  
            break;  
  
        switch (c)  
        {  
            case '0':  
            case '1':  
            case '2':  
            case '3':  
            case '4':  
            case '5':  
            case '6':  
            case '7':  
            case '8':  
            case '9':  
                if (digit_optind != 0 && digit_optind != this_option_optind)  
                    printf ("digits occur in two different argv-elements.\n");  
                digit_optind = this_option_optind;  
                printf ("option %c\n", c);  
                break;  
  
            case 'a':  
                printf ("option a\n");  
                break;  
  
            case 'b':  
                printf ("option b\n");
```

```

break;

case 'c':
    printf ("option c with value ` %s\n", optarg);
    break;

case '?':
    break;

default:
    printf ("?? getopt returned character code 0%o ??\n", c);
}
}

if (optind < argc)
{
    printf ("non-option ARGV-elements: ");
    while (optind < argc)
    printf ("%s ", argv[optind++]);
    printf ("\n");
}

exit (0);
}

```

```
#endif /* TEST */
```

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## 1.286 zlib 1.2.8

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for

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\*/

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