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Files: TAO/TAO_IDL/*

TAO/orbsvcs/IFR_Service/drv_*_ifr.*

TAO/*/be_produce.cpp

TAO/*/be_extern.h

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TAO/tao/DynamicInterface/ExceptionList.h

TAO/tao/DynamicInterface/Request.h

TAO/tao/DynamicInterface/Server_Request.h

TAO/tao/default_ports.h

TAO/tao/Stub.h

TAO/tao/corba.h

TAO/tao/GIOP_Message_Base.h

TAO/tao/Stub.cpp

TAO/tao/Object.h

TAO/tao/TAO_Server_Request.h

TAO/tao/CDR.h

TAO/tao/orbconf.h

TAO/tao/AnyTypeCode/Marshal.cpp

TAO/tao/AnyTypeCode/append.cpp

TAO/tao/AnyTypeCode/NVList.h

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TAO/tao/Principal.h

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*
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```
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* httpd@ncsa.uiuc.edu
*
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```
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=====
```

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Michael Campanella (campanella@stevms.enet.dec.com)

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Document Object Model Level 2 Core is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content and structure of documents. The Document Object Model Level 2 Core builds on the Document Object Model Level 1 Core.

The DOM Level 2 Core is made of a set of core interfaces to create and manipulate the structure and contents of a document. The Core also contains specialized interfaces dedicated to XML.

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```

```
Math.uuid.js (v1.4)
```

```
http://www.broofa.com
```

```
mailto:robert@broofa.com
```

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- 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
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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
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1.20 apcupsd 3.14.0 :1

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1.22 asm 1.0.2

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<head>
```

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```

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

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<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='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
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<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
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<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
<link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />

</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="main-page-column">
```

```
<p>Scala is licensed under the <a href="http://opensource.org/licenses/BSD-3-Clause">BSD 3-Clause
License</a>.</p>
```

```
<h2 id="scala-license">Scala License</h2>
```

```
<p>Copyright (c) 2002-<span class="current-year"> </span> EPFL<br />
Copyright (c) 2011-<span class="current-year"> </span> Lightbend, Inc.</p>
```

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</ul>
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</div>

<div class="sidebar">

<div class="sidebar-inner">

<div class="contents">Contents</div>

<div id="toc"></div>

<div class="alert-info">

<p>Problem with this page?

Please help us fix it!</p>

</div>

</div>

</div>

<div style="clear:both"></div>

</div>

</div>

<div class="footer">

<div class="container">

<h5>Documentation</h5>

Getting Started

API

Overviews/Guides

Tutorials

Language Specification

<h5>Download</h5>

Current Version

All Versions

<h5>Community</h5>

Community

```

<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>
<li><a href="https://scala.epfl.ch/">The Scala Center</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="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlbdwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>

<!-- modernizr js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>

<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

```

```
<!-- backstretch js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl3OFjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>
```

```
<!-- Bootstrap JS -->
<script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js" integrity="sha384-
qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpLiXGihDsGpfMCHJD0IKH0gkPQToGD5ek3"
crossorigin="anonymous"></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>
```

```

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<meta content="text/html; charset=iso-8859-1" http-equiv="Content-Type">
<meta content="en" http-equiv="Content-Language">
<title>ASM - License</title>
<meta name="Description" content="ASM is a very small and very fast Java bytecode manipulation framework.">
<meta name="Keywords" content="ASM,bytecode,manipulation,Java,open,source,free,software,BSD">
<meta name="Reply-to" content="webmaster@ow2.org">
<meta name="Owner" content="OW2">
<meta name="Robots" content="index, follow">
<meta content="asm-team" name="author">
<meta content="asm-team@objectweb.org" name="email">
<script src="/js/objectweb.js" type="text/javascript"></script>
<link type="text/css" href="/common.css" rel="stylesheet" id="stylesheet">
<link type="image/x-icon" href="/images/favicon.ico" rel="icon">
<link type="image/x-icon" href="/images/favicon.ico" rel="shortcut icon">
</head>
<body marginheight="0" marginwidth="0" topmargin="0" leftmargin="0"
onload="MM_preloadImages('/images/menu/boutonok2.gif','/images/menu/boutonsearch2.gif','/images/menu/bout
onprint2.gif','/images/menu/boutonsubscribe2.gif')" bgcolor="#FFFFFF" class="bodyproject">
<table cellpadding="0" cellspacing="0" width="100%" border="0">
<tr>
<td valign="top" width="500"><a href="http://www.ow2.org/"></a></td><td valign="top">
<table cellpadding="0" cellspacing="0" width="100%" border="0">
<tr>
<td valign="top"></td><td valign="top"
width="150"></td>
</tr>
<tr>
<td valign="top">
<table cellpadding="5" cellspacing="0" border="0">
<tr>
<td valign="top"></td><td valign="top"></td><td valign="top"></td><td valign="top"></td>
</tr>
</table>
</td><td style="line-height: 20px;" valign="top" width="150">
<form target="_blank" action="http://www.google.com/custom" method="get">
<input name="cof"
value="S:http://www.ow2.org;/GL:0;AH:center;LH:70;L:http://www.ow2.org/xwiki/skins/ow2/logo.png;LW:500;A
WFID:48faba182d01f379;" type="hidden"><input name="domains" value="ow2.org;mail-archive.ow2.org"
type="hidden"><input name="sitesearch" value="ow2.org" type="hidden">
<table rowspan="0" colspan="0">
<tr>
<td><input onblur="if (this.value=='') this.value='search'" onfocus="this.value=''" value="" maxlength="255"

```

```

size="10" name="q" type="text"></td><td><input alt="Submit"
onmouseover="MM_swapImage('search','./images/menu/boutonsearch2.gif',1)"
onmouseout="MM_swapImgRestore()" src="./images/menu/boutonsearch1.gif" id="search" name="sa"
type="image"></td><td><a alt="Submit"
onmouseover="MM_swapImage('print','./images/menu/boutonprint2.gif',1)"
onmouseout="MM_swapImgRestore()" target="_blank" href="license_print.html"></a></td>
</tr>
</table>
<p class="glose">
<strong><a href="http://www.google.com/advanced_search?q=+site:ow2.org" target="_blank"
class="lienglose">Advanced Search</a></strong> - Powered by Google</p>
</form>
</td>
</tr>
</table>
</td>
</tr>
<tr>
<td width="100%" bgcolor="#FF6600" valign="bottom" colspan="2">
   <a target="_blank" class="barre" href="http://www.ow2.org/">&nbsp;  Consortium&nbsp;  </a>
   &nbsp;  <a target="_blank" class="barre"
href="http://www.ow2.org/xwiki/bin/view/Activities/Fundamentals">&nbsp;  Activities&nbsp;  </a>
   &nbsp;  <a target="_blank" class="barre"
href="http://www.ow2.org/xwiki/bin/view/Activities/Projects">&nbsp;  Projects&nbsp;  </a>
   &nbsp;  <a target="_blank" class="barre" href="http://forge.objectweb.org/">&nbsp;  Forge&nbsp;  </a>
   &nbsp;  <a target="_blank" class="barre"
href="http://www.ow2.org/view/Events/">&nbsp;  Events&nbsp;  </a></td>
</tr>
</table>
<table cellpadding="0" cellspacing="0" border="0" width="100%" summary="">
<tr>
<td valign="top" width="20"></td><td valign="top"
width="160"><br>
<p style="font-size: 16px; font-weight: bold; color: #FF6600; border-bottom: 4px solid #0099CC">ASM</p>
<br>
<div class="OW2menu">
<div class="OW2menutitre">ASM</div>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="./index.html">Home</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="./download/index.html">Download</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="./eclipse/index.html">Eclipse plugin</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="http://download.forge.objectweb.org/asm/asm4-
guide.pdf">User Guide</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/www/info/asm">Mailing Lists</a>

```



```

<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/license.html">License</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/history.html">History</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">ASMDEX</div>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-index.html">Home</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/download/asmdex-index.html">Download</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/wws/info/asm">Mailing Lists</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-license.html">License</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-history.html">History</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">Developers' Corner</div>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/projects/asm/">ObjectWeb
Forge Site</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self"
href="http://forge.objectweb.org/plugins/scmsvn/index.php?group_id=23">SVN Repository</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/tracker/?group_id=23">Issue
Tracker</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/doc/developer-guide.html">Developer Guide</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">About</div>
  &middot;&nbsp;<a class="menu" target="_self" href="/users.html">Users</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/team.html">Team</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="mailto:asm-team@objectweb.org">Contacts</a>
<br>
</div>
<br>
</td><td align="left" width="100%" valign="top">
<h1>Project License</h1>

```

```
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```

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```
</pre>
```

```

</td><td valign="top" width="10"></td>
</tr>
<tr>
<td valign="top" width="20"></td><td valign="top"
width="160"></td><td valign="top"><br>
<address>Copyright &copy; 1999-2009, <a href="http://www.ow2.org">OW2 Consortium</a> | <a
href="http://wiki.opalval.ow2.org/xwiki/bin/view/Main/Contact">contact</a> | <a
href="mailto:webmaster@ow2.org">webmaster</a> | Last modified at 2016-12-23 11:07 AM</address>
</td><td valign="top" width="10"></td>
</tr>
</table>
<br>
```

</body>

</html>

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1.23 AspectJ 1.6.12

1.23.1 Available under license :

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

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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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1.25 attr_libattr 2.4.44 :7.e16

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1.28 axis 1.4

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1.30 axis-jaxrpc 1.4

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1.31 axis2 1.6.2

1.31.1 Available under license :

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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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@end display
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@enumerate 0
@item
PREAMBLE
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1.34 bc 1.06

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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. */

```



```

#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

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

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);

```

```

pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;

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

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger 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 $u = u_0 + u_1 \cdot (b^n)$

Let $v = v_0 + v_1 \cdot (b^n)$

Then $uv = (B^{2n} + B^n) \cdot u_1 \cdot v_1 + B^n \cdot (u_1 - u_0) \cdot (v_0 - v_1) + (B^{n+1}) \cdot u_0 \cdot v_0$

B is the base of storage, number of digits in u_1, u_0 close to equal.

*/

static void

```

_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
  int full_scale)

```

```

{

```

```

  bc_num u0, u1, v0, v1;

```

```

  int u0len, v0len;

```

```

  bc_num m1, m2, m3, d1, d2;

```

```

  int n, prodlen, m1zero;

```

```

  int d1len, d2len;

```

```

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

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

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

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

/* Calculate sub results ... */

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

/* Do recursive multiplies and shifted adds. */
if (m1zero)

```

```

    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

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

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

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

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

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

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

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

```

```

int len1, len2;
int full_scale, prod_scale;

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

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

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

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

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

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

```

```

rptr = (unsigned char *) (result+size-1);
carry = 0;

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

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

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

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

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

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

```

```

    n1->n_len + MIN(n1->n_scale,scale));
    bc_free_num (quot);
    *quot = qval;
}
}

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

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

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

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

```



```

}

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

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

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

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

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

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

```

```

}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
}

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

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

```

```

    qdig++;
}
}

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

char neg;

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

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

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

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

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);

```

```

    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

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

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

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

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

```

```

cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

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

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

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

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

```



```

{
  if (cscale < rscale+1)
    cscale = MIN (cscale*3, rscale+1);
  else
    done = TRUE;
}
}

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

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

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

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

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

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

```

```

int len, ix;

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

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

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

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

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

```

```

nptr++;

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

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

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

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

/* Print the digits on the stack. */

```

```

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

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

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking

```

```

the NUM for zero after having a zero returned. */

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

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

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

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

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

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

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

    /* Get things going. */

```

```

bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

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

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

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

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

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

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

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

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

```

```

    *sptr++ = BCD_CHAR(*nptr++);

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

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

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

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

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

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

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)

```

```

    {
        zero_int = TRUE;
        digits = 1;
    }
*num = bc_new_num (digits, strscale);

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

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

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

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

void

```



```

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

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

```

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Ty Coon, President of Vice

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1.35 bcprov-jdk15 1.51

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<html>

<body bgcolor=#ffffff>

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</body>

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```

*/
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{
    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")
        + "portions of the Software."
        + System.getProperty("line.separator")
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        + "THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
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        + "INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
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```

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+ System.getProperty("line.separator")
+ "LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
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);
}
}

```

1.36 bcprov-jdk15on 1.51

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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

1.38 bison 3.0.4

1.38.1 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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```



```

#
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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 (/( $old_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, $start) =~ s/\n/g) + 1;
print STDERR
"$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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1.40 boost 1.55.0

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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
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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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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 Dossier (dossier@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

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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
Wed, 17 July 2002, 19:27:00 +0400.

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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 * 22:59:43 jkeyes Exp $
 * $Revision: 1.3 $
 * $Date: 2002/09/19 22:59:43 $
 *
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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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Our method of protecting your rights has two steps: (1) copyright

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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.

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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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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.

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

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

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

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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.

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1.68 coreutils 8.24

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those 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

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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.

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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.

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(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.

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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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```
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```

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If the program does terminal interaction, make it output a short
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```
<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
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Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.69 cracklib 2.9.5

1.69.1 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.
=2Dmike

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan
=20

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

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

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
>> I understand that, and you're welcome to bring it up with Alec
> directly
>> and see if he wants to relicense his code as LGPL... but at this
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>> it was enough to just get it consistent and documented as to what
> it was

> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=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
>>> 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.

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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1.70 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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*/

```

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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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1.75 curl 7.30.0

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zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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1.76 curl 7.44.0

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1.77 CXF 2.7.4

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

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The specification of DOM Level 3's various parts is at:
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The specification of DOM Level 1's various parts is at:
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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
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1.84 dbus-test 1.8.20

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1.85 dhcp 4.3.2

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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

1.86 diffutils 3.3

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scriptversion=2012-06-27.10; # UTC

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set -u
```

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```
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2011-11-20.07; # UTC

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#
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# 'make' implicit rules from creating a file called install from it
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#
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```

1.87 Digester 1.8

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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) 19yy 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
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library

General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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

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

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) 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; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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'.
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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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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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.

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

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

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

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

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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.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

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

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

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

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

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

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

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

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

the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.
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1.93 e2fsprogs-lib 1.41.9

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1.94 ecj 4.4.2

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<html xmlns="http://www.w3.org/1999/xhtml">

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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
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    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;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

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BSON library for Go

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mgo - MongoDB driver for Go

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Upstream-Contact: Monica Sarbu <monica@packetbeat.com>

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

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Upstream-Contact: Monica Sarbu <monica@packetbeat.com>

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

Files: *

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@c ispell-local-pdict: "ispell-dict"  
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1.103 flex 2.5.39

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1.106 freetype 2.6

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#
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#
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
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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
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```

```
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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1.108 gdbm 1.11

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

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

@end enumerate

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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

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@item

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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@enumerate a

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

which the executable runs, unless that component itself accompanies the executable.

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

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

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable

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

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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.

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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.

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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.

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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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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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1.110 glib-2.0 2.44.1

1.110.1 Available under license :

```
/* GMODULE - GLIB wrapper code for dynamic module loading
 * Copyright (C) 1998 Tim Janik
 *
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 * version 2 of the License, or (at your option) any later version.
 *
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 */

/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
 * 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

```

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(dllexport)
# endif
# ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern __declspec(dllexport)
#  endif
# 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_HASCORLRF    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 */
    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;

/* 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. */

#ifdef 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 *);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, 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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Version 2, June 1991

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

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1.111 glibc 2.22

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1.114 gnome-desktop-testing 2014.1

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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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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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

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

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1.117 gnutls 3.3.17.1

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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For details see http://shiftleft.org/papers/vector_aes/ and
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1.118 grep 2.21

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The primary ANTLR guy:

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/**

* <http://asm.objectweb.org/>

*

* ASM: a very small and fast Java bytecode manipulation framework

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1.126 ha-api 3.1.9

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1.130 hdparm 9.48

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1.131 hibernate-core 3.6.0.Final

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1.132 hsqldb 2.3.2

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* \$Header: /cvs/fi/FastInfoSet/src/com/sun/xml/internal/fastinfoSet/AbstractResourceBundle.java,v 1.2

* =====

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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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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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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/randr.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.

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From strings/apr_sprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
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*
```

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\$Id: notice.txt 2869 2009-02-25 17:49:10Z unsaved \$

HyperSQL ODBC Driver

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Multibyte support was added by Sankyo Unyu Service, (C) 2001.

The code contained in this library is based on code written by Christian Czeatke and Dan McGuirk (C) 1996, and later maintained by Julie Ann Case. (It was probably originally written to support PostgreSQL).

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.

The HyperSQL ODBC driver has benefitted by several of the excellent Gnu development tools, and from OpenSSL, unixODBC, and WiX. We hereby recognize the GNU Project, the OpenSSL Project, the unixODBC Project, and the WiX developers.

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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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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 strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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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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* Author: Jim Gettys, HP Labs, HP.

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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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* Author: Jim Fulton, MIT The Open Group

*

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

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

BEGIN src/solaris/native/sun/java2d/opengl/J2D_GL/glx.h

* Mesa 3-D graphics library

* Version: 4.1

*

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* $Id: LICENSE,v 12.1 2005/06/16 20:20:10 bostic Exp $  
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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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_snprintf.c:

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BEGIN src/solaris/native/sun/awt/HPkeysym.h
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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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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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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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1.135 httpcomponents 4.2.1

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1.136 httpcore 4.4.5

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```
<!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="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
```

```
<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

```
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permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

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

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a
href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html ">Contact</a></li>
```

```
</ul>
```

```

    </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
</li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
    
</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    

```

```

</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
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>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```

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title="Permanent link">¶</h1>

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

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get Involved

Community FAQ

Memorials

</div>

<div class="col-sm-2">

```
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
```

```
</div>

</div>
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<div class="row">
  <div class="col-lg-12">
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  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

1.137 httpcore 4.3.1

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1.138 hunspell-en_dictionary 0.20090216

:7.1.e16

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```

```
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1.140 hunspell_LGPLv2.1 1.2.8 :16.el6

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1.141 icu4c 49.1.2

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```

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it under the terms of the GNU General Public License as published by
```

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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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1.145 inputproto 2.3.1

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1.146 iptables 1.4.21

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```
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```

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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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1.147 iputils s20121221

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```
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 * tracepath.c
 *
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 * as published by the Free Software Foundation; either version
 * 2 of the License, or (at your option) any later version.
 *
 * 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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1.148 jackson-annotations 2.4.1

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1.150 jackson-core 2.4.1

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1.153 jackson-module-jaxb-annotations 2.2.1

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1.154 jackson-module-jsonSchema 2.1.0

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1.155 jackson-module-scala_2.10 2.4.1

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1.156 jain-sip-sdp 1.2.160-SNAPSHOT

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```

package test.unit.gov.nist.javax.sip.stack.dialog.timeout;

import gov.nist.javax.sip.DialogTimeoutEvent;
import gov.nist.javax.sip.SipStackImpl;
import gov.nist.javax.sip.DialogTimeoutEvent.Reason;

import java.util.ArrayList;
import java.util.Properties;

import javax.sip.ClientTransaction;
import javax.sip.Dialog;
import javax.sip.DialogTerminatedEvent;
import javax.sip.IOExceptionEvent;
import javax.sip.ListeningPoint;
import javax.sip.RequestEvent;
import javax.sip.ResponseEvent;
import javax.sip.ServerTransaction;
import javax.sip.SipFactory;
import javax.sip.SipListener;
import javax.sip.SipProvider;
import javax.sip.TransactionTerminatedEvent;
import javax.sip.address.Address;
import javax.sip.address.AddressFactory;
import javax.sip.address.SipURI;
import javax.sip.header.CSeqHeader;
import javax.sip.header.CallIdHeader;
import javax.sip.header.ContactHeader;
import javax.sip.header.ContentTypeHeader;
import javax.sip.header.FromHeader;
import javax.sip.header.HeaderFactory;
import javax.sip.header.MaxForwardsHeader;
import javax.sip.header.ToHeader;
import javax.sip.header.ViaHeader;
import javax.sip.message.MessageFactory;
import javax.sip.message.Request;
import javax.sip.message.Response;

import org.apache.log4j.ConsoleAppender;
import org.apache.log4j.Logger;
import org.apache.log4j.SimpleLayout;
import org.apache.log4j.helpers.NullEnumeration;

import test.tck.msgflow.callflows.ProtocolObjects;

/**
 * This class sends an INVITE and upon receiving a 200 OK it doesn't send the ACK to test is the Dialog Timeout
 * Event is correctly passed to the application
 * The timeout Reason should be ACK not sent

```

```

*
* @author jean deruelle
*/

public class ShootistNotImplementingSipListenerExt implements SipListener {

    private ListeningPoint listeningPoint;
    private ProtocolObjects protocolObjects;
    /* move variables as class variables from init() */
    private SipURI requestURI;

    private CSeqHeader cSeqHeader;

    private FromHeader fromHeader;

    private ToHeader toHeader;

    private MaxForwardsHeader maxForwards;

    private SipProvider sipProvider;

    private Address fromNameAddress;

    private ContentTypeHeader contentTypeHeader;

    private ContactHeader contactHeader;
    // If you want to try TCP transport change the following to
    // String transport = "tcp";
    String transport = "udp";

    private HeaderFactory headerFactory;

    private AddressFactory addressFactory;

    private MessageFactory messageFactory;

    private static String PEER_ADDRESS = Shootme.myAddress;

    private static int PEER_PORT = Shootme.myPort;

    private static String peerHostPort = PEER_ADDRESS + ":" + PEER_PORT;

    // To run on two machines change these to suit.
    public static final String myAddress = "127.0.0.1";

    private static final int myPort = 5060;

    private boolean stateIsOk = false;

```



```

private Dialog dialog = null;

private static Logger logger = Logger.getLogger(ShootistNotImplementingSipListenerExt.class);

static {
    if (logger.getAllAppenders().equals(NullEnumeration.getInstance())) {

        logger.addAppender(new ConsoleAppender(new SimpleLayout()));

    }
}

public ShootistNotImplementingSipListenerExt(ProtocolObjects protocolObjects) {
    super();
    this.protocolObjects = protocolObjects;
    stateIsOk = protocolObjects.autoDialog;
}

public boolean checkState() {

    return stateIsOk;
}

public SipProvider createSipProvider() {
    try {
        listeningPoint = protocolObjects.sipStack.createListeningPoint(
            myAddress, myPort, protocolObjects.transport);

        sipProvider = protocolObjects.sipStack
            .createSipProvider(listeningPoint);
        return sipProvider;
    } catch (Exception ex) {
        logger.error(ex);
        DialogTimeoutTest
            .fail("Shootist: unable to create provider");
        return null;
    }
}

public void init() {
    SipFactory sipFactory = null;
    sipFactory = SipFactory.getInstance();
    sipFactory.setPathName("gov.nist");
    Properties properties = new Properties();

    /* remote peer host */
    String peerHostPort = ShootistNotImplementingSipListenerExt.peerHostPort;

```

```

String localhost = myAddress;

try {
    headerFactory = protocolObjects.headerFactory;
    addressFactory = protocolObjects.addressFactory;
    messageFactory = protocolObjects.messageFactory;

    String fromName = "BigGuy";
    String fromSipAddress = "here.com";
    String fromDisplayName = "The Master Blaster";

    String toSipAddress = "there.com";
    String toUser = "LittleGuy";
    String toDisplayName = "The Little Blister";

    // create >From Header
    SipURI fromAddress = addressFactory.createSipURI(fromName,
        fromSipAddress);

    fromNameAddress = addressFactory.createAddress(fromAddress);
    fromNameAddress.setDisplayName(fromDisplayName);

    // create To Header
    SipURI toAddress = addressFactory
        .createSipURI(toUser, toSipAddress);
    Address toNameAddress = addressFactory.createAddress(toAddress);
    toNameAddress.setDisplayName(toDisplayName);
    toHeader = headerFactory.createToHeader(toNameAddress, null);

    // create Request URI
    requestURI = addressFactory.createSipURI(toUser, peerHostPort);

    // Create ContentTypeHeader
    contentTypeHeader = headerFactory.createContentTypeHeader(
        "application", "sdp");

    // Create a new MaxForwardsHeader
    maxForwards = headerFactory.createMaxForwardsHeader(70);

    // Create contact headers
    String host = localhost;

    SipURI contactUrl = addressFactory.createSipURI(fromName, host);
    contactUrl.setPort(listeningPoint.getPort());

    // Create the contact name address.
    SipURI contactURI = addressFactory.createSipURI(fromName, host);
    contactURI.setPort(listeningPoint.getPort());

```

```

        Address contactAddress = addressFactory.createAddress(contactURI);

        // Add the contact address.
        contactAddress.setDisplayName(fromName);

        contactHeader = headerFactory.createContactHeader(contactAddress);

    } catch (Exception ex) {
        System.out.println(ex.getMessage());
        ex.printStackTrace();
        DialogTimeoutTest.fail("Shootist: Error on init!", ex);
    }
}

public void processDialogTerminated(
    DialogTerminatedEvent dialogTerminatedEvent) {
    if(((SipStackImpl)protocolObjects.sipStack).isBackToBackUserAgent()) {
        stateIsOk = true;
        return;
    }
    if(!protocolObjects.autoDialog) {
        stateIsOk = true;
    }
}

public void processIOException(IOExceptionEvent exceptionEvent) {
    System.out.println("An IO Exception occured!");
    DialogTimeoutTest.fail("An IO Exception occured!");
}

}

public void processRequest(RequestEvent requestReceivedEvent) {
    Request request = requestReceivedEvent.getRequest();
    ServerTransaction serverTransactionId = requestReceivedEvent
        .getServerTransaction();

    System.out.println("GOT REQUEST (we shouldnt get that): "
        + request.getMethod());
    DialogTimeoutTest.fail("Shouldnt receive any request:\n"
        + request);
}

}

public void processResponse(ResponseEvent responseReceivedEvent) {
    Response response = (Response) responseReceivedEvent.getResponse();
    System.out.println("GOT RESPONSE:" + response.getStatusCode());
    if(responseReceivedEvent.getClientTransaction() == null) {

```

```

return;
}
try {
    if (response.getStatusCode() == Response.OK
        && ((CSeqHeader) response.getHeader(CSeqHeader.NAME))
            .getMethod().equals(Request.INVITE)) {
        System.out.println("Not Sending ACK to test dialog timeout");
    }
} catch (Exception ex) {
    ex.printStackTrace();

    DialogTimeoutTest.fail(
        "Shootist: Exception on process respons/send info", ex);
}

}

public void processTimeout(javax.sip.TimeoutEvent timeoutEvent) {
    if(protocolObjects.autoDialog) {
        DialogTimeoutTest.fail(
            "Shootist: Exception on timeout, event shouldn't be thrown on automatic dailog creation by the stack");
    }
}

public void processTimeout(DialogTimeoutEvent timeoutEvent) {
    stateIsOk = false;
    DialogTimeoutTest.fail(
        "Shootist: this shouldn't be called");
}

public void processTransactionTerminated(
    TransactionTerminatedEvent transactionTerminatedEvent) {
    // System.out.println("TransactionTerminated event notification");
}

void sendInviteRequest() {
    System.out.println("====Send INVITE");
    try {
        cSeqHeader = headerFactory.createCSeqHeader(1L, Request.INVITE);

        // Create a new CallId header
        CallIdHeader callIdHeader = sipProvider.getNewCallId();

        int fromTag = 1000 + hashCode();

        fromHeader = headerFactory.createFromHeader(fromNameAddress,
            new Integer(fromTag).toString());
    }
}

```

```

String sdpData = "v=0\r\n"
    + "o=4855 13760799956958020 13760799956958020"
    + " IN IP4 129.6.55.78\r\n" + "s=mysession session\r\n"
    + "p=+46 8 52018010\r\n" + "c=IN IP4 129.6.55.78\r\n"
    + "t=0 0\r\n" + "m=audio 6022 RTP/AVP 0 4 18\r\n"
    + "a=rtpmap:0 PCMU/8000\r\n" + "a=rtpmap:4 G723/8000\r\n"
    + "a=rtpmap:18 G729A/8000\r\n" + "a=ptime:20\r\n";

// Create ViaHeaders
ArrayList viaHeaders = new ArrayList();
ViaHeader viaHeader = headerFactory.createViaHeader(myAddress,
    listeningPoint.getPort(), transport, null);

// add via headers
viaHeaders.add(viaHeader);
Request request = messageFactory.createRequest(requestURI,
    Request.INVITE, callIdHeader, cSeqHeader, fromHeader,
    toHeader, viaHeaders, maxForwards);

request.setHeader(contactHeader);
request.setContent(sdpData, contentTypeHeader);
// Create the client transaction.
ClientTransaction inviteTid = sipProvider
    .getNewClientTransaction(request);
if(!protocolObjects.autoDialog) {
    dialog = sipProvider.getNewDialog(inviteTid);
}
System.out.println("inviteTid = " + inviteTid + " sipDialog = "
    + inviteTid.getDialog());

// send the request out.
inviteTid.sendRequest();
} catch (Exception ex) {
    System.out.println("Fail to sendInviteRequest with SipException:\n"
        + ex.getMessage());
    DialogTimeoutTest.fail(
        "Shootist: Failed to send invite: ", ex);
}
return;
}

}
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*/

package test.unit.gov.nist.javax.sip.stack.dialog.timeout;

import gov.nist.javax.sip.DialogTimeoutEvent;
import gov.nist.javax.sip.stack.SIPDialog;

import java.util.Timer;
import java.util.TimerTask;

import javax.sip.Dialog;
import javax.sip.DialogTerminatedEvent;
import javax.sip.IOExceptionEvent;
import javax.sip.ListeningPoint;
import javax.sip.RequestEvent;
import javax.sip.ResponseEvent;
import javax.sip.ServerTransaction;
import javax.sip.SipListener;
import javax.sip.SipProvider;
import javax.sip.Transaction;
import javax.sip.TransactionTerminatedEvent;
import javax.sip.address.Address;
import javax.sip.address.AddressFactory;
import javax.sip.header.CSeqHeader;
import javax.sip.header.ContactHeader;
import javax.sip.header.HeaderFactory;
import javax.sip.header.ToHeader;
import javax.sip.message.MessageFactory;
import javax.sip.message.Request;
import javax.sip.message.Response;

import org.apache.log4j.ConsoleAppender;
import org.apache.log4j.Logger;
import org.apache.log4j.SimpleLayout;
import org.apache.log4j.helpers.NullEnumeration;

import test.tck.msgflow.callflows.ProtocolObjects;

/**

* This class receives an INVITE and sends a 180 and a 200 OK, the Shootist will not send the ACK to test is the
Dialog Timeout Event is correctly passed to the application.

* The timeout Reason should be ACK not received

*

* @author jean deruelle

*/

```
public class ShootmeNotImplementingListener implements SipListener {

    class TTask extends TimerTask {

        RequestEvent requestEvent;

        ServerTransaction st;

        public TTask(RequestEvent requestEvent, ServerTransaction st) {
            this.requestEvent = requestEvent;
            this.st = st;
        }

        public void run() {
            Request request = requestEvent.getRequest();
            try {
                // System.out.println("shootme: got an Invite sending OK");
                Response response = messageFactory.createResponse(180, request);
                ToHeader toHeader = (ToHeader) response.getHeader(ToHeader.NAME);
                Address address = addressFactory.createAddress("Shootme <sip:" + myAddress + ":" + myPort + ">");
                ContactHeader contactHeader = headerFactory.createContactHeader(address);
                response.addHeader(contactHeader);

                if(!protocolObjects.autoDialog) {
                    ((SipProvider)requestEvent.getSource()).getNewDialog(st);
                }
                st.getDialog().setApplicationData("some junk");

                // System.out.println("got a server transaction " + st);
                st.sendResponse(response); // send 180(RING)
                response = messageFactory.createResponse(200, request);
                toHeader = (ToHeader) response.getHeader(ToHeader.NAME);
                String toTag = new Integer((int) (Math.random() *
100000)).toString()+"_ResponseCode_"+responseCodeToINFO;
                toHeader.setTag(toTag); // Application is supposed to set.

                response.addHeader(contactHeader);

                st.sendResponse(response);// send 200(OK)

            } catch (Exception ex) {
                ex.printStackTrace();
                DialogTimeoutTest.fail("Shootme: Failed in timer task!!!", ex);
            }
        }
    }
}
```

```

    }

}

private static AddressFactory addressFactory;

private static MessageFactory messageFactory;

private static HeaderFactory headerFactory;

private boolean stateIsOk = true;

private ProtocolObjects protocolObjects;

private int responseCodeToINFO = 500;

// To run on two machines change these to suit.
public static final String myAddress = "127.0.0.1";

public static final int myPort = 5070;

private static Logger logger = Logger.getLogger(ShootmeNotImplementingListener.class);

static {
    if (logger.getAllAppenders().equals(NullEnumeration.getInstance())) {

        logger.addAppender(new ConsoleAppender(new SimpleLayout()));

    }
}

public ShootmeNotImplementingListener(ProtocolObjects protocolObjects) {
    this.protocolObjects = protocolObjects;
    stateIsOk = protocolObjects.autoDialog;
}

public boolean checkState() {

    return stateIsOk;
}

public SipProvider createSipProvider() throws Exception {
    ListeningPoint lp = protocolObjects.sipStack.createListeningPoint(myAddress, myPort,
protocolObjects.transport);

```



```

        SipProvider sipProvider = protocolObjects.sipStack.createSipProvider(lp);
        return sipProvider;
    }

    public void init() {

        headerFactory = protocolObjects.headerFactory;
        addressFactory = protocolObjects.addressFactory;
        messageFactory = protocolObjects.messageFactory;

    }

    /**
     * Process the ACK request. Send the bye and complete the call flow.
     */
    public void processAck(RequestEvent requestEvent, ServerTransaction serverTransaction) {
        SipProvider sipProvider = (SipProvider) requestEvent.getSource();
        try {
            // System.out.println("*** shootme: got an ACK "
            // + requestEvent.getRequest());
            if (serverTransaction == null) {
                System.out.println("null server transaction -- ignoring the ACK!");
                return;
            }
            Dialog dialog = serverTransaction.getDialog();

            System.out.println("Dialog Created = " + dialog.getDialogId() + " Dialog State = " + dialog.getState());

            System.out.println("Waiting for INFO");

        } catch (Exception ex) {
            ex.printStackTrace();
            DialogTimeoutTest.fail("Shootme: Failed on process ACK", ex);
        }
    }

    public void processDialogTerminated(DialogTerminatedEvent dialogTerminatedEvent) {
        TimerTask timerTask = new CheckAppData(dialogTerminatedEvent.getDialog());
        new Timer().schedule(timerTask, 9000);
        // Dialog dialog = dialogTerminatedEvent.getDialog();
        //
        // System.out.println("Dialog Terminated Event " + dialog.getDialogId());
        // if ( this.responseCodeToINFO>=300)
        // {
        //     DialogTimeoutTest.fail("Shootme: Got DialogTerminatedEvent, this shouldnt happen");
        //     stateIsOk=false;
        // }
    }

```

```

}

public void processInfo(RequestEvent requestEvent) {
    try {
        Response info500Response = messageFactory.createResponse(this.responseCodeToINFO,
requestEvent.getRequest());
        requestEvent.getServerTransaction().sendResponse(info500Response);
    } catch (Exception e) {

        e.printStackTrace();
        DialogTimeoutTest.fail("Shootme: Failed on process INFO", e);
    }

}

/**
 * Process the invite request.
 */
public void processInvite(RequestEvent requestEvent, ServerTransaction serverTransaction) {
    try {
        // System.out.println("ProcessInvite");
        Request request = requestEvent.getRequest();
        SipProvider sipProvider = (SipProvider) requestEvent.getSource();
        // Note you need to create the Server Transaction
        // before the listener returns but you can delay sending the
        // response

        ServerTransaction st = sipProvider.getNewServerTransaction(request);

        TTask ttask = new TTask(requestEvent, st);
        int ttime = 100;

        new Timer().schedule(ttask, ttime);
    } catch (Exception ex) {
        ex.printStackTrace();
        DialogTimeoutTest.fail("Shootme: Failed on process INVITE", ex);
    }
}

public void processIOException(IOExceptionEvent exceptionEvent) {
    System.out.println("IOException event");
    DialogTimeoutTest.fail("Got IOException event");
}

public void processRequest(RequestEvent requestEvent) {
    Request request = requestEvent.getRequest();
    ServerTransaction serverTransactionId = requestEvent.getServerTransaction();
}

```

```

System.out.println("GOT REQUEST: " + request.getMethod());

if (request.getMethod().equals(Request.INVITE)) {
    processInvite(requestEvent, serverTransactionId);
} else if (request.getMethod().equals(Request.ACK)) {
    processAck(requestEvent, serverTransactionId);
} else if (request.getMethod().equals(Request.INFO)) {
    processInfo(requestEvent);
} else if (request.getMethod().equals(Request.BYE)) {
    processBye(requestEvent, serverTransactionId);
}
}

/**
 * Process the bye request.
 */
public void processBye(RequestEvent requestEvent,
    ServerTransaction serverTransactionId) {
    SipProvider sipProvider = (SipProvider) requestEvent.getSource();
    Request request = requestEvent.getRequest();
    Dialog dialog = requestEvent.getDialog();
    System.out.println("local party = " + dialog.getLocalParty());
    try {
        System.out.println("shootme: got a bye sending OK.");
        Response response = messageFactory.createResponse(200, request);
        serverTransactionId.sendResponse(response);
        System.out.println("Dialog State is "
            + serverTransactionId.getDialog().getState());

    } catch (Exception ex) {
        ex.printStackTrace();
        System.exit(0);
    }
}

public void processResponse(ResponseEvent responseReceivedEvent) {
    // System.out.println("Got a response");
    Response response = (Response) responseReceivedEvent.getResponse();
    Transaction tid = responseReceivedEvent.getClientTransaction();

    // System.out.println("Response received with client transaction id "
    // + tid + ":\n" + response);

    System.out.println("GOT RESPONSE: " + response.getStatusCode());
    try {

```

```

        if (response.getStatusCode() == Response.OK && ((CSeqHeader)
response.getHeader(CSeqHeader.NAME)).getMethod().equals(Request.INVITE)) {

            Dialog dialog = tid.getDialog();
            Request request = tid.getRequest();
            dialog.sendAck(request);
        }

    } catch (Exception ex) {
        ex.printStackTrace();
        DialogTimeoutTest.fail("Shootme: Failed on process response: " + response.getStatusCode(), ex);
    }
}

public void processTimeout(javax.sip.TimeoutEvent timeoutEvent) {

    if(protocolObjects.autoDialog) {
        DialogTimeoutTest.fail(
            "Shootme: Exception on timeout, event shouldn't be thrown on automatic dialog creation by the stack");
        stateIsOk = false;
    }
    /*
     * System.out.println("state = " + transaction.getState());
     * System.out.println("dialog = " + transaction.getDialog());
     * System.out.println("dialogState = " +
     * transaction.getDialog().getState());
     * System.out.println("Transaction Time out" +
     * transaction.getBranchId());
     */
}

public void processTimeout(DialogTimeoutEvent timeoutEvent) {
    DialogTimeoutTest.fail(
        "Shootme: Exception on timeout, event shouldn't be thrown since the listener is not implemented");
}

public void processTransactionTerminated(TransactionTerminatedEvent transactionTerminatedEvent) {
    // System.out.println("TransactionTerminatedEvent");
}

public void setResponseCodeToINFO(int responseCodeToINFO) {
    this.responseCodeToINFO = responseCodeToINFO;
}

/**

```

```

* @param stateIsOk the stateIsOk to set
*/
public void setStateIsOk(boolean stateIsOk) {
    this.stateIsOk = stateIsOk;
}

/**
* @return the stateIsOk
*/
public boolean isStateIsOk() {
    return stateIsOk;
}

class CheckAppData extends TimerTask {
    Dialog dialog;

    public CheckAppData(Dialog dialog) {
        this.dialog = dialog;
    }

    public void run() {
        System.out.println("Checking app data " + dialog.getApplicationData());
        if(dialog.getApplicationData() == null || !dialog.getApplicationData().equals("some junk")) {
            stateIsOk = false;
            DialogTimeoutTest.fail("application data should never be null except if nullified by the application !");
        }
    }
}
}
}
/*
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```

```

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*
* .
*
*/
/*****
* Product of NIST/ITL Advanced Networking Technologies Division (ANTD)      *
*****/
package gov.nist.java.sip.message;

import gov.nist.java.sip.header.*;
import java.text.ParseException;

/**
 * Duplicate header exception: thrown when there is more
 * than one header of a type where there should only be one.
 * The exception handler may choose to :
 * 1. discard the duplicate by returning null
 * 2. keep the duplicate by just returning it.
 * 3. Discard the entire message by throwing an exception.
 * @version 1.2 $Revision: 1.6 $ $Date: 2009/07/17 18:57:54 $
 * @since 1.1
 * @author M. Ranganathan
 */
public class SIPDuplicateHeaderException extends ParseException {

    private static final long serialVersionUID = 8241107266407879291L;
    protected SIPHeader sipHeader;
    protected SIPMessage sipMessage;
    public SIPDuplicateHeaderException(String msg) {
        super(msg, 0);
    }
    public SIPMessage getSIPMessage() {
        return sipMessage;
    }
    public SIPHeader getSIPHeader() {
        return sipHeader;
    }
    public void setSIPHeader(SIPHeader sipHeader) {
        this.sipHeader = sipHeader;
    }
    public void setSIPMessage(SIPMessage sipMessage) {
        this.sipMessage = sipMessage;
    }
}

```

```

}
/*
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* .
*
*/
/*****
* Product of NIST/ITL Advanced Networking Technologies Division (ANTD).      *
*****/
package gov.nist.javax.sip.message;

import java.text.ParseException;
import javax.sip.header.*;

import java.util.LinkedList;
import java.util.List;
import gov.nist.javax.sip.header.*;

import javax.sip.message.*;
import javax.sip.address.*;
import gov.nist.javax.sip.parser.*;

/**
 * Message Factory implementation
 *
 * @version 1.2 $Revision: 1.24 $ $Date: 2010/05/06 14:08:03 $
 * @since 1.1
 */

```

```

* @author M. Ranganathan <br/>
* @author Olivier Deruelle <br/>
*
*/
@SuppressWarnings("unchecked")
public class MessageFactoryImpl implements MessageFactory, MessageFactoryExt {

    private boolean testing = false;

    private boolean strict = true;

    private static String defaultContentEncodingCharset = "UTF-8";

    /*
     * The UserAgent header to include for all requests created from this message factory.
     */
    private static UserAgentHeader userAgent;

    /*
     * The Server header to include
     */
    private static ServerHeader server;

    public void setStrict(boolean strict) {
        this.strict = strict;
    }

    /**
     * This is for testing -- allows you to generate invalid requests
     */
    public void setTest(boolean flag) {
        this.testing = flag;
    }

    /**
     * Creates a new instance of MessageFactoryImpl
     */
    public MessageFactoryImpl() {
    }

    /**
     * Creates a new Request message of type specified by the method parameter,
     * containing the URI of the Request, the mandatory headers of the message
     * with a body in the form of a Java object and the body content type.

```



```

*
* @param requestURI -
*     the new URI object of the requestURI value of this Message.
* @param method -
*     the new string of the method value of this Message.
* @param callId -
*     the new CallIdHeader object of the callId value of this
*     Message.
* @param cSeq -
*     the new CSeqHeader object of the cSeq value of this Message.
* @param from -
*     the new FromHeader object of the from value of this Message.
* @param to -
*     the new ToHeader object of the to value of this Message.
* @param via -
*     the new List object of the ViaHeaders of this Message.
* @param content -
*     the new Object of the body content value of this Message.
* @param contentType -
*     the new ContentTypeHeader object of the content type value of
*     this Message.
* @throws ParseException
*     which signals that an error has been reached unexpectedly
*     while parsing the method or the body.
*/
public Request createRequest(javax.sip.address.URI requestURI,
    String method, CallIdHeader callId, CSeqHeader cSeq,
    FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards, ContentTypeHeader contentType,
    Object content) throws ParseException {
    if (requestURI == null || method == null || callId == null
        || cSeq == null || from == null || to == null || via == null
        || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException("Null parameters");

    SIPRequest sipRequest = new SIPRequest();
    sipRequest.setRequestURI(requestURI);
    sipRequest.setMethod(method);
    sipRequest.setCallId(callId);
    sipRequest.setCSeq(cSeq);
    sipRequest.setFrom(from);
    sipRequest.setTo(to);
    sipRequest.setVia(via);
    sipRequest.setMaxForwards(maxForwards);
    sipRequest.setContent(content, contentType);
    if ( userAgent != null ) {
        sipRequest.setHeader(userAgent);
    }
}

```

```

    }

    return sipRequest;
}

/**
 * Creates a new Request message of type specified by the method parameter,
 * containing the URI of the Request, the mandatory headers of the message
 * with a body in the form of a byte array and body content type.
 *
 * @param requestURI -
 *     the new URI object of the requestURI value of this Message.
 * @param method -
 *     the new string of the method value of this Message.
 * @param callId -
 *     the new CallIdHeader object of the callId value of this
 *     Message.
 * @param cSeq -
 *     the new CSeqHeader object of the cSeq value of this Message.
 * @param from -
 *     the new FromHeader object of the from value of this Message.
 * @param to -
 *     the new ToHeader object of the to value of this Message.
 * @param via -
 *     the new List object of the ViaHeaders of this Message.
 * @param content -
 *     the new byte array of the body content value of this Message.
 * @param contentType -
 *     the new ContentTypeHeader object of the content type value of
 *     this Message.
 * @throws ParseException
 *     which signals that an error has been reached unexpectedly
 *     while parsing the method or the body.
 */
public Request createRequest(URI requestURI, String method,
    CallIdHeader callId, CSeqHeader cSeq, FromHeader from, ToHeader to,
    List via, MaxForwardsHeader maxForwards, byte[] content,
    ContentTypeHeader contentType) throws ParseException {
    if (requestURI == null || method == null || callId == null
        || cSeq == null || from == null || to == null || via == null
        || maxForwards == null || content == null
        || contentType == null)
        throw new ParseException(
            "JAIN-SIP Exception, some parameters are missing"
            + ", unable to create the request", 0);

    SIPRequest sipRequest = new SIPRequest();
    sipRequest.setRequestURI(requestURI);

```

```

sipRequest.setMethod(method);
sipRequest.setCallId(callId);
sipRequest.setCSeq(cSeq);
sipRequest.setFrom(from);
sipRequest.setTo(to);
sipRequest.setVia(via);
sipRequest.setMaxForwards(maxForwards);
sipRequest.setHeader((ContentType) contentType);
sipRequest.setMessageContent(content);
if ( userAgent != null ) {
    sipRequest.setHeader(userAgent);
}
return sipRequest;
}

/**
 * Creates a new Request message of type specified by the method parameter,
 * containing the URI of the Request, the mandatory headers of the message.
 * This new Request does not contain a body.
 *
 * @param requestURI -
 *     the new URI object of the requestURI value of this Message.
 * @param method -
 *     the new string of the method value of this Message.
 * @param callId -
 *     the new CallIdHeader object of the callId value of this
 *     Message.
 * @param cSeq -
 *     the new CSeqHeader object of the cSeq value of this Message.
 * @param from -
 *     the new FromHeader object of the from value of this Message.
 * @param to -
 *     the new ToHeader object of the to value of this Message.
 * @param via -
 *     the new List object of the ViaHeaders of this Message.
 * @throws ParseException
 *     which signals that an error has been reached unexpectedly
 *     while parsing the method.
 */
public Request createRequest(URI requestURI, String method,
    CallIdHeader callId, CSeqHeader cSeq, FromHeader from, ToHeader to,
    List via, MaxForwardsHeader maxForwards) throws ParseException {
    if (requestURI == null || method == null || callId == null
        || cSeq == null || from == null || to == null || via == null
        || maxForwards == null)
        throw new ParseException(
            "JAIN-SIP Exception, some parameters are missing"
            + ", unable to create the request", 0);
}

```

```

        SIPRequest sipRequest = new SIPRequest();
        sipRequest.setRequestURI(requestURI);
        sipRequest.setMethod(method);
        sipRequest.setCallId(callId);
        sipRequest.setCSeq(cSeq);
        sipRequest.setFrom(from);
        sipRequest.setTo(to);
        sipRequest.setVia(via);
        sipRequest.setMaxForwards(maxForwards);
        if (userAgent != null) {
            sipRequest.setHeader(userAgent);
        }

        return sipRequest;
    }

    // Standard Response Creation methods

    /**
     * Creates a new Response message of type specified by the statusCode
     * parameter, containing the mandatory headers of the message with a body in
     * the form of a Java object and the body content type.
     *
     * @param statusCode -
     *     the new integer of the statusCode value of this Message.
     * @param callId -
     *     the new CallIdHeader object of the callId value of this
     *     Message.
     * @param cSeq -
     *     the new CSeqHeader object of the cSeq value of this Message.
     * @param from -
     *     the new FromHeader object of the from value of this Message.
     * @param to -
     *     the new ToHeader object of the to value of this Message.
     * @param via -
     *     the new List object of the ViaHeaders of this Message.
     * @param content -
     *     the new Object of the body content value of this Message.
     * @param contentType -
     *     the new ContentTypeHeader object of the content type value of
     *     this Message.
     * @throws ParseException
     *     which signals that an error has been reached unexpectedly
     *     while parsing the statusCode or the body.
     */
    public Response createResponse(int statusCode, CallIdHeader callId,
        CSeqHeader cSeq, FromHeader from, ToHeader to, List via,

```

```

        MaxForwardsHeader maxForwards, Object content,
        ContentTypeHeader contentType) throws ParseException {
    if (callId == null || cSeq == null || from == null || to == null
        || via == null || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException(" unable to create the response");

    SIPResponse sipResponse = new SIPResponse();
    StatusLine statusLine = new StatusLine();
    statusLine.setStatusCode(statusCode);
    String reasonPhrase = SIPResponse.getReasonPhrase(statusCode);
    //if (reasonPhrase == null)
    // throw new ParseException(statusCode + " Unkown ", 0);
    statusLine.setReasonPhrase(reasonPhrase);
    sipResponse.setStatusLine(statusLine);
    sipResponse.setCallId(callId);
    sipResponse.setCSeq(cSeq);
    sipResponse.setFrom(from);
    sipResponse.setTo(to);
    sipResponse.setVia(via);
    sipResponse.setMaxForwards(maxForwards);
    sipResponse.setContent(content, contentType);
    if (userAgent != null) {
        sipResponse.setHeader(userAgent);
    }
    return sipResponse;
}

/**
 * Creates a new Response message of type specified by the statusCode
 * paramater, containing the mandatory headers of the message with a body in
 * the form of a byte array and the body content type.
 *
 * @param statusCode -
 *     the new integer of the statusCode value of this Message.
 * @param callId -
 *     the new CallIdHeader object of the callId value of this
 *     Message.
 * @param cSeq -
 *     the new CSeqHeader object of the cSeq value of this Message.
 * @param from -
 *     the new FromHeader object of the from value of this Message.
 * @param to -
 *     the new ToHeader object of the to value of this Message.
 * @param via -
 *     the new List object of the ViaHeaders of this Message.
 * @param content -
 *     the new byte array of the body content value of this Message.

```

```

* @param contentType -
*     the new ContentTypeHeader object of the content type value of
*     this Message.
* @throws ParseException
*     which signals that an error has been reached unexpectedly
*     while parsing the statusCode or the body.
*/
public Response createResponse(int statusCode, CallIdHeader callId,
    CSeqHeader cSeq, FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards, byte[] content,
    ContentTypeHeader contentType) throws ParseException {
    if (callId == null || cSeq == null || from == null || to == null
        || via == null || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException("Null params ");

    SIPResponse sipResponse = new SIPResponse();
    sipResponse.setStatusCode(statusCode);
    sipResponse.setCallId(callId);
    sipResponse.setCSeq(cSeq);
    sipResponse.setFrom(from);
    sipResponse.setTo(to);
    sipResponse.setVia(via);
    sipResponse.setMaxForwards(maxForwards);
    sipResponse.setHeader((ContentType) contentType);
    sipResponse.setMessageContent(content);
    if (userAgent != null) {
        sipResponse.setHeader(userAgent);
    }
    return sipResponse;
}

/**
* Creates a new Response message of type specified by the statusCode
* paramater, containing the mandatory headers of the message. This new
* Response does not contain a body.
*
* @param statusCode -
*     the new integer of the statusCode value of this Message.
* @param callId -
*     the new CallIdHeader object of the callId value of this
*     Message.
* @param cSeq -
*     the new CSeqHeader object of the cSeq value of this Message.
* @param from -
*     the new FromHeader object of the from value of this Message.
* @param to -
*     the new ToHeader object of the to value of this Message.

```

```

* @param via -
*     the new List object of the ViaHeaders of this Message.
* @throws ParseException
*     which signals that an error has been reached unexpectedly
*     while parsing the statusCode.
*/
public Response createResponse(int statusCode, CallIdHeader callId,
    CSeqHeader cSeq, FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards) throws ParseException {
    if (callId == null || cSeq == null || from == null || to == null
        || via == null || maxForwards == null)
        throw new ParseException(
            "JAIN-SIP Exception, some parameters are missing"
            + ", unable to create the response", 0);

    SIPResponse sipResponse = new SIPResponse();
    sipResponse.setStatusCode(statusCode);
    sipResponse.setCallId(callId);
    sipResponse.setCSeq(cSeq);
    sipResponse.setFrom(from);
    sipResponse.setTo(to);
    sipResponse.setVia(via);
    sipResponse.setMaxForwards(maxForwards);
    if (userAgent != null) {
        sipResponse.setHeader(userAgent);
    }
    return sipResponse;
}

// Response Creation methods based on a Request

/**
* Creates a new Response message of type specified by the statusCode
* paramater, based on a specific Request with a new body in the form of a
* Java object and the body content type.
*
* @param statusCode -
*     the new integer of the statusCode value of this Message.
* @param request -
*     the received Request object upon which to base the Response.
* @param content -
*     the new Object of the body content value of this Message.
* @param contentType -
*     the new ContentTypeHeader object of the content type value of
*     this Message.
* @throws ParseException
*     which signals that an error has been reached unexpectedly
*     while parsing the statusCode or the body.

```

```

*/
public Response createResponse(int statusCode, Request request,
    ContentTypeHeader contentType, Object content)
    throws ParseException {
    if (request == null || content == null || contentType == null)
        throw new NullPointerException("null parameters");

    SIPRequest sipRequest = (SIPRequest) request;
    SIPResponse sipResponse = sipRequest.createResponse(statusCode);
    sipResponse.setContent(content, contentType);
    if (server != null) {
        sipResponse.setHeader(server);
    }
    return sipResponse;
}

/**
 * Creates a new Response message of type specified by the statusCode
 * parameter, based on a specific Request with a new body in the form of a
 * byte array and the body content type.
 *
 * @param statusCode -
 *     the new integer of the statusCode value of this Message.
 * @param request -
 *     the received Request object upon which to base the Response.
 * @param content -
 *     the new byte array of the body content value of this Message.
 * @param contentType -
 *     the new ContentTypeHeader object of the content type value of
 *     this Message.
 * @throws ParseException
 *     which signals that an error has been reached unexpectedly
 *     while parsing the statusCode or the body.
 */
public Response createResponse(int statusCode, Request request,
    ContentTypeHeader contentType, byte[] content)
    throws ParseException {
    if (request == null || content == null || contentType == null)
        throw new NullPointerException("null Parameters");

    SIPRequest sipRequest = (SIPRequest) request;
    SIPResponse sipResponse = sipRequest.createResponse(statusCode);
    sipResponse.setHeader((ContentType) contentType);
    sipResponse.setMessageContent(content);
    if (server != null) {
        sipResponse.setHeader(server);
    }
    return sipResponse;
}

```



```

}

/**
 * Creates a new Response message of type specified by the statusCode
 * paramater, based on a specific Request message. This new Response does
 * not contain a body.
 *
 * @param statusCode -
 *     the new integer of the statusCode value of this Message.
 * @param request -
 *     the received Request object upon which to base the Response.
 * @throws ParseException
 *     which signals that an error has been reached unexpectedly
 *     while parsing the statusCode.
 */
public Response createResponse(int statusCode, Request request)
    throws ParseException {
    if (request == null)
        throw new NullPointerException("null parameters");

    // if (LogWriter.needsLogging)
    // LogWriter.logMessage("createResponse " + request);

    SIPRequest sipRequest = (SIPRequest) request;
    SIPResponse sipResponse = sipRequest.createResponse(statusCode);
    // Remove the content from the message (Bug report from
    // Antonis Karydas.
    sipResponse.removeContent();
    sipResponse.removeHeader(ContentTypeHeader.NAME);
    if (server != null) {
        sipResponse.setHeader(server);
    }
    return sipResponse;
}

/**
 * Creates a new Request message of type specified by the method paramater,
 * containing the URI of the Request, the mandatory headers of the message
 * with a body in the form of a byte array and body content type.
 *
 * @param requestURI -
 *     the new URI object of the requestURI value of this Message.
 * @param method -
 *     the new string of the method value of this Message.
 * @param callId -
 *     the new CallIdHeader object of the callId value of this
 *     Message.
 * @param cSeq -

```

```

*         the new CSeqHeader object of the cSeq value of this Message.
* @param from -
*         the new FromHeader object of the from value of this Message.
* @param to -
*         the new ToHeader object of the to value of this Message.
* @param via -
*         the new List object of the ViaHeaders of this Message.
* @param contentType -
*         the new ContentTypeHeader object of the content type value of
*         this Message.
* @param content -
*         the new byte array of the body content value of this Message.
* @throws ParseException
*         which signals that an error has been reached unexpectedly
*         while parsing the method or the body.
*/

```

```

public Request createRequest(javax.sip.address.URI requestURI,
    String method, CallIdHeader callId, CSeqHeader cSeq,
    FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards, ContentTypeHeader contentType,
    byte[] content) throws ParseException {
    if (requestURI == null || method == null || callId == null
        || cSeq == null || from == null || to == null || via == null
        || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException("missing parameters");

```

```

    SIPRequest sipRequest = new SIPRequest();
    sipRequest.setRequestURI(requestURI);
    sipRequest.setMethod(method);
    sipRequest.setCallId(callId);
    sipRequest.setCSeq(cSeq);
    sipRequest.setFrom(from);
    sipRequest.setTo(to);
    sipRequest.setVia(via);
    sipRequest.setMaxForwards(maxForwards);
    sipRequest.setContent(content, contentType);
    if (userAgent != null) {
        sipRequest.setHeader(userAgent);
    }
    return sipRequest;
}

```

```

/**
* Creates a new Response message of type specified by the statusCode
* paramater, containing the mandatory headers of the message with a body in
* the form of a Java object and the body content type.
*

```

```

* @param statusCode
*     the new integer of the statusCode value of this Message.
* @param callId
*     the new CallIdHeader object of the callId value of this
*     Message.
* @param cSeq
*     the new CSeqHeader object of the cSeq value of this Message.
* @param from
*     the new FromHeader object of the from value of this Message.
* @param to
*     the new ToHeader object of the to value of this Message.
* @param via
*     the new List object of the ViaHeaders of this Message.
* @param contentType
*     the new ContentTypeHeader object of the content type value of
*     this Message.
* @param content
*     the new Object of the body content value of this Message.
* @throws ParseException
*     which signals that an error has been reached unexpectedly
*     while parsing the statusCode or the body.
*/
public Response createResponse(int statusCode, CallIdHeader callId,
    CSeqHeader cSeq, FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards, ContentTypeHeader contentType,
    Object content) throws ParseException {
    if (callId == null || cSeq == null || from == null || to == null
        || via == null || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException("missing parameters");
    SIPResponse sipResponse = new SIPResponse();
    StatusLine statusLine = new StatusLine();
    statusLine.setStatusCode(statusCode);
    String reason = SIPResponse.getReasonPhrase(statusCode);
    if (reason == null)
        throw new ParseException(statusCode + " Unknown", 0);
    statusLine.setReasonPhrase(reason);
    sipResponse.setStatusLine(statusLine);
    sipResponse.setCallId(callId);
    sipResponse.setCSeq(cSeq);
    sipResponse.setFrom(from);
    sipResponse.setTo(to);
    sipResponse.setVia(via);
    sipResponse.setContent(content, contentType);
    if ( userAgent != null ) {
        sipResponse.setHeader(userAgent);
    }
    return sipResponse;
}

```

```

}

/**
 * Creates a new Response message of type specified by the statusCode
 * parameter, containing the mandatory headers of the message with a body in
 * the form of a byte array and the body content type.
 *
 * @param statusCode
 *     the new integer of the statusCode value of this Message.
 * @param callId
 *     the new CallIdHeader object of the callId value of this
 *     Message.
 * @param cSeq
 *     the new CSeqHeader object of the cSeq value of this Message.
 * @param from
 *     the new FromHeader object of the from value of this Message.
 * @param to
 *     the new ToHeader object of the to value of this Message.
 * @param via
 *     the new List object of the ViaHeaders of this Message.
 * @param contentType
 *     the new ContentTypeHeader object of the content type value of
 *     this Message.
 * @param content
 *     the new byte array of the body content value of this Message.
 * @throws ParseException
 *     which signals that an error has been reached unexpectedly
 *     while parsing the statusCode or the body.
 */
public Response createResponse(int statusCode, CallIdHeader callId,
    CSeqHeader cSeq, FromHeader from, ToHeader to, List via,
    MaxForwardsHeader maxForwards, ContentTypeHeader contentType,
    byte[] content) throws ParseException {
    if (callId == null || cSeq == null || from == null || to == null
        || via == null || maxForwards == null || content == null
        || contentType == null)
        throw new NullPointerException("missing parameters");
    SIPResponse sipResponse = new SIPResponse();
    StatusLine statusLine = new StatusLine();
    statusLine.setStatusCode(statusCode);
    String reason = SIPResponse.getReasonPhrase(statusCode);
    if (reason == null)
        throw new ParseException(statusCode + " : Unknown", 0);
    statusLine.setReasonPhrase(reason);
    sipResponse.setStatusLine(statusLine);
    sipResponse.setCallId(callId);
    sipResponse.setCSeq(cSeq);

```

```

sipResponse.setFrom(from);
sipResponse.setTo(to);
sipResponse.setVia(via);
sipResponse.setContent(content, contentType);
if ( userAgent != null) {
    sipResponse.setHeader(userAgent);
}
return sipResponse;
}

/**
 * Create a request from a string. Convenience method for UACs that want to
 * create an outgoing request from a string. Only the headers of the request
 * should be included in the String that is supplied to this method.
 *
 * @param requestString --
 *     string from which to create the message null string returns an
 *     empty message.
 */
public javax.sip.message.Request createRequest(String requestString)
    throws java.text.ParseException {
    if (requestString == null || requestString.equals("")) {
        SIPRequest retval = new SIPRequest();
        retval.setNullRequest();
        return retval;
    }

    StringMsgParser smp = new StringMsgParser();
    // smp.setStrict(this.strict);

    /*
     * This allows you to catch parse exceptions and create invalid messages
     * if you want.
     */
    ParseExceptionListener parseExceptionListener = new ParseExceptionListener() {

        public void handleException(ParseException ex,
            SIPMessage sipMessage, Class headerClass,
            String headerText, String messageText)
            throws ParseException {
            // Rethrow the error for the essential headers. Otherwise bad
            // headers are simply
            // recorded in the message.
            if (testing) {
                if (headerClass == From.class || headerClass == To.class
                    || headerClass == CallID.class
                    || headerClass == MaxForwards.class
                    || headerClass == Via.class

```

```

        || headerClass == RequestLine.class
        || headerClass == StatusLine.class
        || headerClass == CSeq.class)
    throw ex;

    sipMessage.addUnparsed(headerText);
}

}

};

ParseExceptionListener exHandler = null;
if (this.testing)
    exHandler = parseExceptionListener;

SIPMessage sipMessage = smp.parseSIPMessage(requestString.getBytes(), true, this.strict, exHandler);

if (!(sipMessage instanceof SIPRequest))
    throw new ParseException(requestString, 0);

return (SIPRequest) sipMessage;
}

/**
 * Create a response from a string
 *
 * @param responseString --
 *     string from which to create the message null string returns an
 *     empty message.
 */
public Response createResponse(String responseString)
    throws java.text.ParseException {
    if (responseString == null)
        return new SIPResponse();

    StringMsgParser smp = new StringMsgParser();

    SIPMessage sipMessage = smp.parseSIPMessage(responseString.getBytes(), true, false, null);

    if (!(sipMessage instanceof SIPResponse))
        throw new ParseException(responseString, 0);

    return (SIPResponse) sipMessage;
}

/**

```

```

* Set the common UserAgent header for all requests created from this message factory.
* This header is applied to all Messages created from this Factory object except those
* that take String for an argument and create Message from the given String.
*
* @param userAgent -- the user agent header to set.
*
* @since 2.0
*/

```

```

public void setDefaultUserAgentHeader(UserAgentHeader userAgent) {
    MessageFactoryImpl.userAgent = userAgent;
}

```

```

/**
* Set the common Server header for all responses created from this message factory.
* This header is applied to all Messages created from this Factory object except those
* that take String for an argument and create Message from the given String.
*
* @param userAgent -- the user agent header to set.
*
* @since 2.0
*/

```

```

public void setDefaultServerHeader(ServerHeader server) {
    MessageFactoryImpl.server = server;
}

```

```

/**
* Get the default common UserAgentHeader.
*
* @return the user agent header.
*
* @since 2.0
*/
public static UserAgentHeader getDefaultUserAgentHeader() {
    return userAgent;
}

```

```

/**
* Get the default common server header.
*
* @return the server header.
*/
public static ServerHeader getDefaultServerHeader() {
    return server;
}

```

```

/**
 * Set default charset used for encoding String content.
 * @param charset
 */
public void setDefaultContentEncodingCharset(String charset) throws NullPointerException,
IllegalArgumentException {
    if (charset == null ) throw new NullPointerException ("Null argument!");
    MessageFactoryImpl.defaultContentEncodingCharset = charset;

}

public static String getDefaultContentEncodingCharset() {
    return MessageFactoryImpl.defaultContentEncodingCharset;
}

public MultipartMimeContent createMultipartMimeContent(ContentTypeHeader multipartMimeCth,
    String[] contentType,
    String[] contentSubtype,
    String[] contentBody) {
    String boundary = multipartMimeCth.getParameter("boundary");
    MultipartMimeContentImpl retval = new MultipartMimeContentImpl(multipartMimeCth);
    for (int i = 0 ; i < contentType.length; i++) {
        ContentTypeHeader cth = new ContentType(contentType[i],contentSubtype[i]);
        ContentImpl contentImpl = new ContentImpl(contentBody[i],boundary);
        contentImpl.setContentTypeHeader(cth);
        retval.add(contentImpl);
    }
    return retval;
}

}

```

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1.168 javacsv 2.0

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1.169 javahelp2 2.0.05.ds1-3

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1.170 JavaMail API 1.4.2

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1.171 javax.mail 1.5.1

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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Version: GnuPG v1.4.1 (GNU/Linux)

iD8DBQFEEaStXR9WPTAwnLARAjsNAJ4jBB6wCEqucFljGge7yrAMsrFv/gCgoMC+
5hdry6ZjXRcUhQEyNz2F/T4=
=I4Co

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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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iD8DBQFDjMI6J97Uv2IW248RAmGNAJ9/krpkiYJRrJTMXVkl3cdnVvfU+QCfYFEh
pN0h9U/xdFTRMFsXYFHQeN4=
=24Hd

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Full name: Jesse C. McConnell

E-Mail: `jmccconnell@apache.org`

Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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Date: December 19 2007

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Version: GnuPG v1.4.6 (GNU/Linux)

iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjJACgrvjM
C/W/GuQFfCJJykkL2jd9/Ag=
=ufUh

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CIrIRAmuJAKCFgi4W0UOH8IU_n+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TtxQbScw=

=N/w/

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Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
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Version: GnuPG v1.4.2.1 (GNU/Linux)

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I/stizRWWZZkeLbcglzdQCE=
=piHm

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Date: July 14, 2006

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Version: GnuPG v1.4.4 (MingW32)

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E-Mail: `simone.bordet@gmail.com`
Mailing Address:

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Date: 8 January 2007

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Version: GnuPG v1.4.3 (GNU/Linux)

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Hash: SHA1

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Date: 2012-07-17

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Version: GnuPG v1.4.10 (GNU/Linux)

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E-Mail: tim@adjective.org

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

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Version: GnuPG v1.4.1 (Darwin)

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-----END PGP SIGNATURE-----

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font-size:12.0pt;
font-family:"Times New Roman";
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mso-fareast-font-family:"Times New Roman";}
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mso-paper-source:0;}
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{page:Section1;}
-->
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</head><body style="" lang="EN-US">

<div class="Section1">

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</p>

<p><span style="font-size: 10pt;">THE ACCOMPANYING PROGRAM IS PROVIDED UNDER

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<p class="MsoNormal"><!--[if !supportEmptyParas]--> <!--[endif]--><o:p></o:p></p>

</div>

<div class="Section2">

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Version 2.0, January 2004

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</body></html>

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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

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

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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

Assorted

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Date: December 19 2007

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Version: GnuPG v1.4.6 (GNU/Linux)

iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcePXxEjIJACgrvjM
C/W/GuQFfCJJykkL2jd9/Ag=
=ufUh

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Hash: SHA1

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E-Mail: `thomas.becker00@gmail.com`
Mailing Address:

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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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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
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=piHm
```

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Version: GnuPG v1.4.1 (GNU/Linux)

iD8DBQFDjMI6J97Uv2IW248RAmGNAJ9/krpkiYJRrJTMXVkJL3cdnVvfU+QCfYFEh
pN0h9U/xdFTRMFsXYFHQeN4=
=24Hd

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Point of Contact:
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Signature:

Name: Gordon King

Positions: Chief Operational Officer

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

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|-------|------------|
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Full name: Simone Bordet

E-Mail: simone.bordet@gmail.com

Mailing Address:

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Date: 8 January 2007

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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=
=6rqm

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E-Mail: jfarcand@apache.org

Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal,
Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CiRIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TxQbScw=

=N/w/

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Full name: James Strachan

E-Mail: jstrachan@apache.org

Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)

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8sfMxEDZquIqhVbfZU2c76U=
=8WW7

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVtJExGJjUvKgCfaKji

6etDJ6AUj0jTuS159hUsWMQ=

=HmqH

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5hdry6ZjXRcUhQEyNz2F/T4=
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Full name: David Jencks

E-Mail: david_jencks@yahoo.com

Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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=====
Jetty Web Container

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=====

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Cometd Bayeux java server
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=====

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Jetty JBoss Integration
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```
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// =====
/*
 * @(#)UnixCrypt.java 0.9 96/11/25
 *
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 *
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 */
```

1.188 jetty-schemas 3.1.M0

1.188.1 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>
  <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>
        </li>
      </ul>
    </li>
  </ul>
</div>

```

```

        </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>
    <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>
</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>

```


<i class="fa fa-angle-double-right orange fa-fw"></i>

Jetty Powered

<i class="fa fa-angle-double-right orange fa-fw"></i>

Licenses

<li class="separator">

Resources

<i class="fa fa-angle-double-right orange fa-fw"></i>

Documentation

<i class="fa fa-angle-double-right orange fa-fw"></i>

Downloads

<i class="fa fa-angle-double-right orange fa-fw"></i>

Maven Plugin


```
<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      </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://download.eclipse.org/jetty/stable-9/apidocs/" target="_self">
    JavaDoc          </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://download.eclipse.org/jetty/stable-9/xref/" target="_self">
    Source XRef      </a>
</li>
```

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

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="http://webtide.com/blogs" target="_self">
    Blogs          </a>
</li>
```



```
        <li class="separator">
    <a class="separator">
    Project Management    </a>
</li>

    <li>
    <i class="fa fa-angle-double-right orange fa-fw"></i>
    <a href="/jetty/documentation/current/advanced-contributing.html#community" target="_self">
    Community    </a>
</li>

    <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-
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</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>
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                        <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>

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<li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
</ul>

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<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">
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</div> <a href="#" class="scrollup">Back to the top</a>
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</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>

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1.189 jgroups 3.6.11.Final

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*
* Adopted from Java Concurrency in Practice. This annotation defines the monitor that protects the variable
* annotated by @GuardedBy, e.g. @GuardedBy("lock") or @GuardedBy("this")
* @author Bela Ban
*/

1.190 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

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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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/*

* jQuery 1.2.6 - New Wave Javascript

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1.199 json-c 0.12

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1.200 json-c/test-driver 0.12

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```
#!/bin/sh
# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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```

Make unconditional expansion of undefined variables an error. This
helps a lot in preventing typo-related bugs.

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1.202 json-simple 1.1

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1.203 json-smart 2.1.1

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1.204 json4s-ast_2.10 3.2.9

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<header class="site-header js-details-container" role="banner">

<div class="container-responsive">

<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 0 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 m-2-4c0 1.11-0.89 2-2 2s-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="0 0 10 16"/>
      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="/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"></path></svg>
```

```
<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 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="/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 1zm 3H6v5h2V4zm 0 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 2-2c0-0.73-0.41-1.38-1-1.72zm-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 1-1.72zm-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 1.2zm-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 1-1H1c-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>
```

```
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-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">
```

```
<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 3.75-1.48-1.48 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 0 911.5-1.5 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 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="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 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="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 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="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 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="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 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="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 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="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 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="v3.3.0.RC2">
    v3.3.0.RC2
  </span>
</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 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="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 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="v3.2.11_2.10">
    v3.2.11_2.10
  </span>
</a>

```

```

</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 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="v3.2.7_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 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.3.2.7">
      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 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="v3.2.5_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 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="v3.2.5">
      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 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="v3.2.4_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 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_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 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="3.3.0">
    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 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="3.2.6_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 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="3.2.1_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 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="3.2.1">
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 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="3.1.0">
  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 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="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
tooltipped tooltipped-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 12v3h3l8-8-3-3L0 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>	Apache License</td>
<td id="LC1" class="blob-code blob-code-inner js-file-line">	
</tr>	
<tr>	
<td id="L2" class="blob-num js-line-number" data-line-number="2"></td>	Version 2.0, January 2004</td>
<td id="LC2" class="blob-code blob-code-inner js-file-line">	
</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>	
<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>	

11	<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, or are under common</td>
	</tr>
	<tr>
	<td id="L17" class="blob-num js-line-number" data-line-number="17"></td>
	<td id="LC17" class="blob-code blob-code-inner js-file-line"> control with that entity. For the purposes of this definition,</td>
	</tr>
	<tr>
	<td id="L18" class="blob-num js-line-number" data-line-number="18"></td>
	<td id="LC18" class="blob-code blob-code-inner js-file-line"> "control" means (i) the power, direct or indirect, to cause the</td>
	</tr>
	<tr>
	<td id="L19" class="blob-num js-line-number" data-line-number="19"></td>
	<td id="LC19" class="blob-code blob-code-inner js-file-line"> direction or management of such entity, whether by contract or</td>
	</tr>
	<tr>
	<td id="L20" class="blob-num js-line-number" data-line-number="20"></td>
	<td id="LC20" class="blob-code blob-code-inner js-file-line"> otherwise, or (ii) ownership of fifty percent (50%) or more of the</td>
	</tr>

<p><tr></p> <p><td id="L21" class="blob-num js-line-number" data-line-number="21"></td></p> <p><td id="LC21" class="blob-code blob-code-inner js-file-line"> outstanding shares, or (iii) beneficial ownership of such entity.</td></p> <p></tr></p>
<p><tr></p> <p><td id="L22" class="blob-num js-line-number" data-line-number="22"></td></p> <p><td id="LC22" class="blob-code blob-code-inner js-file-line"></p> <p></td></p> <p></tr></p>
<p><tr></p> <p><td id="L23" class="blob-num js-line-number" data-line-number="23"></td></p> <p><td id="LC23" class="blob-code blob-code-inner js-file-line"> &quot;You&quot; (or &quot;Your&quot;) shall mean an individual or Legal Entity</td></p> <p></tr></p>
<p><tr></p> <p><td id="L24" class="blob-num js-line-number" data-line-number="24"></td></p> <p><td id="LC24" class="blob-code blob-code-inner js-file-line"> exercising permissions granted by this License.</td></p> <p></tr></p>
<p><tr></p> <p><td id="L25" class="blob-num js-line-number" data-line-number="25"></td></p> <p><td id="LC25" class="blob-code blob-code-inner js-file-line"></p> <p></td></p> <p></tr></p>
<p><tr></p> <p><td id="L26" class="blob-num js-line-number" data-line-number="26"></td></p> <p><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></p> <p></tr></p>
<p><tr></p> <p><td id="L27" class="blob-num js-line-number" data-line-number="27"></td></p> <p><td id="LC27" class="blob-code blob-code-inner js-file-line"> including but not limited to software source code, documentation</td></p> <p></tr></p>
<p><tr></p> <p><td id="L28" class="blob-num js-line-number" data-line-number="28"></td></p> <p><td id="LC28" class="blob-code blob-code-inner js-file-line"> source, and configuration files.</td></p> <p></tr></p>
<p><tr></p> <p><td id="L29" class="blob-num js-line-number" data-line-number="29"></td></p> <p><td id="LC29" class="blob-code blob-code-inner js-file-line"></p> <p></td></p> <p></tr></p>
<p><tr></p> <p><td id="L30" class="blob-num js-line-number" data-line-number="30"></td></p> <p><td id="LC30" class="blob-code blob-code-inner js-file-line"> &quot;Object&quot; form shall mean any form resulting from mechanical</td></p>

</tr>	
<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">	
</td>	
</tr>	
<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">	"Work" shall mean the work of authorship, whether in Source or</td>
</tr>	
<tr>	
<td id="L36" class="blob-num js-line-number" data-line-number="36"></td>	
<td id="LC36" class="blob-code blob-code-inner js-file-line">	Object form, made available under the License, as indicated by a</td>
</tr>	
<tr>	
<td id="L37" class="blob-num js-line-number" data-line-number="37"></td>	
<td id="LC37" class="blob-code blob-code-inner js-file-line">	copyright notice that is included in or attached to the work</td>
</tr>	
<tr>	
<td id="L38" class="blob-num js-line-number" data-line-number="38"></td>	
<td id="LC38" class="blob-code blob-code-inner js-file-line">	(an example is provided in the Appendix below).</td>
</tr>	
<tr>	
<td id="L39" class="blob-num js-line-number" data-line-number="39"></td>	
<td id="LC39" class="blob-code blob-code-inner js-file-line">	
</td>	
</tr>	
<tr>	
<td id="L40" class="blob-num js-line-number" data-line-number="40"></td>	
<td id="LC40" class="blob-code blob-code-inner js-file-line">	"Derivative Works" shall mean

any work, whether in Source or Object</td>

</tr>

<tr>

<td id="L41" class="blob-num js-line-number" data-line-number="41"></td>

<td id="LC41" class="blob-code blob-code-inner js-file-line"> form, that is based on (or derived from) the Work and for which the</td>

</tr>

<tr>

<td id="L42" class="blob-num js-line-number" data-line-number="42"></td>

<td id="LC42" class="blob-code blob-code-inner js-file-line"> editorial revisions, annotations, elaborations, or other modifications</td>

</tr>

<tr>

<td id="L43" class="blob-num js-line-number" data-line-number="43"></td>

<td id="LC43" class="blob-code blob-code-inner js-file-line"> represent, as a whole, an original work of authorship. For the purposes</td>

</tr>

<tr>

<td id="L44" class="blob-num js-line-number" data-line-number="44"></td>

<td id="LC44" class="blob-code blob-code-inner js-file-line"> of this License, Derivative Works shall not include works that remain</td>

</tr>

<tr>

<td id="L45" class="blob-num js-line-number" data-line-number="45"></td>

<td id="LC45" class="blob-code blob-code-inner js-file-line"> separable from, or merely link (or bind by name) to the interfaces of,</td>

</tr>

<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>

</tr>

<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">

</td>

</tr>

<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"> "Contribution" 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>

<p><td id="L50" class="blob-num js-line-number" data-line-number="50"></td></p> <p><td id="LC50" class="blob-code blob-code-inner js-file-line"> to that Work or Derivative Works thereof, that is intentionally</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L51" class="blob-num js-line-number" data-line-number="51"></td></p> <p><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></p>	<p></tr></p>
<p><tr></p> <p><td id="L52" class="blob-num js-line-number" data-line-number="52"></td></p> <p><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></p>	<p></tr></p>
<p><tr></p> <p><td id="L53" class="blob-num js-line-number" data-line-number="53"></td></p> <p><td id="LC53" class="blob-code blob-code-inner js-file-line"> the copyright owner. For the purposes of this definition, "submitted" means</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L54" class="blob-num js-line-number" data-line-number="54"></td></p> <p><td id="LC54" class="blob-code blob-code-inner js-file-line"> means any form of electronic, verbal, or written communication sent</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L55" class="blob-num js-line-number" data-line-number="55"></td></p> <p><td id="LC55" class="blob-code blob-code-inner js-file-line"> to the Licensor or its representatives, including but not limited to</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L56" class="blob-num js-line-number" data-line-number="56"></td></p> <p><td id="LC56" class="blob-code blob-code-inner js-file-line"> communication on electronic mailing lists, source code control systems,</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L57" class="blob-num js-line-number" data-line-number="57"></td></p> <p><td id="LC57" class="blob-code blob-code-inner js-file-line"> and issue tracking systems that are managed by, or on behalf of, the</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L58" class="blob-num js-line-number" data-line-number="58"></td></p> <p><td id="LC58" class="blob-code blob-code-inner js-file-line"> Licensor for the purpose of discussing and improving the Work, but</td></p>	<p></tr></p>
<p><tr></p> <p><td id="L59" class="blob-num js-line-number" data-line-number="59"></td></p> <p><td id="LC59" class="blob-code blob-code-inner js-file-line"> excluding communication that is conspicuously marked or otherwise</td></p>	<p></tr></p>

```

</tr>
<tr>
  <td id="L60" class="blob-num js-line-number" data-line-number="60"></td>
  <td id="LC60" class="blob-code blob-code-inner js-file-line">    designated in writing by the copyright owner
as &quot;Not a Contribution.&quot;</td>
</tr>
<tr>
  <td id="L61" class="blob-num js-line-number" data-line-number="61"></td>
  <td id="LC61" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L62" class="blob-num js-line-number" data-line-number="62"></td>
  <td id="LC62" class="blob-code blob-code-inner js-file-line">    &quot;Contributor&quot; shall mean
Licensor and any individual or Legal Entity</td>
</tr>
<tr>
  <td id="L63" class="blob-num js-line-number" data-line-number="63"></td>
  <td id="LC63" class="blob-code blob-code-inner js-file-line">    on behalf of whom a Contribution has been
received by Licensor and</td>
</tr>
<tr>
  <td id="L64" class="blob-num js-line-number" data-line-number="64"></td>
  <td id="LC64" class="blob-code blob-code-inner js-file-line">    subsequently incorporated within the
Work.</td>
</tr>
<tr>
  <td id="L65" class="blob-num js-line-number" data-line-number="65"></td>
  <td id="LC65" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <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>

```

<p><td id="LC69" class="blob-code blob-code-inner js-file-line"> copyright license to reproduce, prepare Derivative Works of,</td></p>	
</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>	
</tr>	
<tr>	
<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>	
</tr>	
<tr>	
<td id="L72" class="blob-num js-line-number" data-line-number="72"></td>	
<td id="LC72" class="blob-code blob-code-inner js-file-line">	
</td>	
</tr>	
<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 to You a perpetual,</td>	
</tr>	
<tr>	
<td id="L75" class="blob-num js-line-number" data-line-number="75"></td>	
<td id="LC75" class="blob-code blob-code-inner js-file-line"> worldwide, non-exclusive, no-charge, royalty-free, irrevocable</td>	
</tr>	
<tr>	
<td id="L76" class="blob-num js-line-number" data-line-number="76"></td>	
<td id="LC76" class="blob-code blob-code-inner js-file-line"> (except as stated in this section) patent license to make, have made,</td>	
</tr>	
<tr>	
<td id="L77" class="blob-num js-line-number" data-line-number="77"></td>	
<td id="LC77" class="blob-code blob-code-inner js-file-line"> use, offer to sell, sell, import, and otherwise transfer the Work,</td>	
</tr>	
<tr>	
<td id="L78" class="blob-num js-line-number" data-line-number="78"></td>	
<td id="LC78" class="blob-code blob-code-inner js-file-line"> where such license applies only to those patent claims licensable</td>	
</tr>	

<tr>	<td id="L79" class="blob-num js-line-number" data-line-number="79"></td>
infringed by their</td>	<td id="LC79" class="blob-code blob-code-inner js-file-line"> by such Contributor that are necessarily
</tr>	
<tr>	<td id="L80" class="blob-num js-line-number" data-line-number="80"></td>
their Contribution(s)</td>	<td id="LC80" class="blob-code blob-code-inner js-file-line"> Contribution(s) alone or by combination of
</tr>	
<tr>	<td id="L81" class="blob-num js-line-number" data-line-number="81"></td>
was submitted. If You</td>	<td id="LC81" class="blob-code blob-code-inner js-file-line"> with the Work to which such Contribution(s)
</tr>	
<tr>	<td id="L82" class="blob-num js-line-number" data-line-number="82"></td>
(including a</td>	<td id="LC82" class="blob-code blob-code-inner js-file-line"> institute patent litigation against any entity
</tr>	
<tr>	<td id="L83" class="blob-num js-line-number" data-line-number="83"></td>
alleging that the Work</td>	<td id="LC83" class="blob-code blob-code-inner js-file-line"> cross-claim or counterclaim in a lawsuit)
</tr>	
<tr>	<td id="L84" class="blob-num js-line-number" data-line-number="84"></td>
Work constitutes direct</td>	<td id="LC84" class="blob-code blob-code-inner js-file-line"> or a Contribution incorporated within the
</tr>	
<tr>	<td id="L85" class="blob-num js-line-number" data-line-number="85"></td>
patent licenses</td>	<td id="LC85" class="blob-code blob-code-inner js-file-line"> or contributory patent infringement, then any
</tr>	
<tr>	<td id="L86" class="blob-num js-line-number" data-line-number="86"></td>
Work shall terminate</td>	<td id="LC86" class="blob-code blob-code-inner js-file-line"> granted to You under this License for that
</tr>	
<tr>	<td id="L87" class="blob-num js-line-number" data-line-number="87"></td>
</tr>	<td id="LC87" class="blob-code blob-code-inner js-file-line"> as of the date such litigation is filed.</td>
<tr>	<td id="L88" class="blob-num js-line-number" data-line-number="88"></td>
</tr>	<td id="LC88" class="blob-code blob-code-inner js-file-line">

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</tr>
<tr>
  <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>
</tr>
<tr>
  <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>
</tr>
<tr>
  <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>
</tr>
<tr>
  <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>
</tr>
<tr>
  <td id="L93" class="blob-num js-line-number" data-line-number="93"></td>
  <td id="LC93" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L94" class="blob-num js-line-number" data-line-number="94"></td>
  <td id="LC94" class="blob-code blob-code-inner js-file-line"> (a) You must give any other recipients of the
Work or</td>
</tr>
<tr>
  <td id="L95" class="blob-num js-line-number" data-line-number="95"></td>
  <td id="LC95" class="blob-code blob-code-inner js-file-line"> Derivative Works a copy of this License;
and</td>
</tr>
<tr>
  <td id="L96" class="blob-num js-line-number" data-line-number="96"></td>
  <td id="LC96" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L97" class="blob-num js-line-number" data-line-number="97"></td>
  <td id="LC97" class="blob-code blob-code-inner js-file-line"> (b) You must cause any modified files to
carry prominent notices</td>
</tr>
<tr>
  <td id="L98" class="blob-num js-line-number" data-line-number="98"></td>
  <td id="LC98" class="blob-code blob-code-inner js-file-line"> stating that You changed the files;

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and</td>
</tr>
<tr>
  <td id="L99" class="blob-num js-line-number" data-line-number="99"></td>
  <td id="LC99" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L100" class="blob-num js-line-number" data-line-number="100"></td>
  <td id="LC100" class="blob-code blob-code-inner js-file-line"> (c) You must retain, in the Source form of
any Derivative Works</td>
</tr>
<tr>
  <td id="L101" class="blob-num js-line-number" data-line-number="101"></td>
  <td id="LC101" class="blob-code blob-code-inner js-file-line"> that You distribute, all copyright, patent,
trademark, and</td>
</tr>
<tr>
  <td id="L102" class="blob-num js-line-number" data-line-number="102"></td>
  <td id="LC102" class="blob-code blob-code-inner js-file-line"> attribution notices from the Source form
of the Work,</td>
</tr>
<tr>
  <td id="L103" class="blob-num js-line-number" data-line-number="103"></td>
  <td id="LC103" class="blob-code blob-code-inner js-file-line"> excluding those notices that do not
pertain to any part of</td>
</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>

```

<pre> <td id="LC108" class="blob-code blob-code-inner js-file-line"> 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"> 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"> 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"> 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"> 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"> 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"> 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"> 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"> 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"> Your own attribution</td> </tr> </pre>	<p>include a readable copy of the attribution</p> <p>within such NOTICE file, excluding</p> <p>pertain to any part of the Derivative</p> <p>of the following places: within a</p> <p>as part of the Derivative Works; within</p> <p>documentation, if provided along with the</p> <p>within a display generated by the</p> <p>wherever such third-party notices</p> <p>of the NOTICE file are for informational</p> <p>do not modify the License. You may add</p>
---	---

<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>

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</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">

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</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>
</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>

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<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>

L157	liable to You for damages, including any direct, indirect, special,
L158	incidental, or consequential damages of any character arising as a
L159	result of this License or out of the use or inability to use the
L160	Work (including but not limited to damages for loss of goodwill,
L161	work stoppage, computer failure or malfunction, or any and all
L162	other commercial damages or losses), even if such Contributor
L163	has been advised of the possibility of such damages.
L164	
L165	9. Accepting Warranty or Additional Liability. While redistributing
L166	

<pre> <td id="LC166" class="blob-code blob-code-inner js-file-line"> may choose to offer,</td> </tr> <tr> <td id="L167" class="blob-num js-line-number" data-line-number="167"></td> <td id="LC167" class="blob-code blob-code-inner js-file-line"> and charge a fee for, acceptance of support, warranty, indemnity,</td> </tr> <tr> <td id="L168" class="blob-num js-line-number" data-line-number="168"></td> <td id="LC168" class="blob-code blob-code-inner js-file-line"> or other liability obligations and/or rights consistent with this</td> </tr> <tr> <td id="L169" class="blob-num js-line-number" data-line-number="169"></td> <td id="LC169" class="blob-code blob-code-inner js-file-line"> License. However, in accepting such obligations, You may act only</td> </tr> <tr> <td id="L170" class="blob-num js-line-number" data-line-number="170"></td> <td id="LC170" class="blob-code blob-code-inner js-file-line"> on Your own behalf and on Your sole responsibility, not on behalf</td> </tr> <tr> <td id="L171" class="blob-num js-line-number" data-line-number="171"></td> <td id="LC171" class="blob-code blob-code-inner js-file-line"> of any other Contributor, and only if You 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> </pre>	<p>the Work or Derivative Works thereof, You</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 agree to indemnify,</p> <p>defend, and hold each Contributor harmless for any liability</p> <p>incurred by, or claims asserted against, such Contributor by reason</p> <p>of your accepting any such warranty or additional liability.</p>
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<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>

```

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</div>
```

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</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>

```

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</button>

Something went wrong with that request. Please try again.

</div>

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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">
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3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
  </button>
</div>
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1.205 jspeex 1.0-20110330

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1.206 jsr305 2.0.1

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1.207 jstl 1.1.2

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1.210 JUnit 4.8.2

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```
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```

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```
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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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1.215 kmod 21.0

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Ty Coon, President of Vice
```

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1.216 krb5 1.6.3

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@smallexample

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
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cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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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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1.217 less 479.0

1.217.1 Available under license :

Less License

Less

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Version 3, 29 June 2007

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

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

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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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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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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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1.221 libcap 2.24

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1.222 libcap-ng 0.7.7

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1.223 libcgrouop 0.41

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1.225 libdnet 1.12

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```
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 *
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*
* @(#)err.h 8.1 (Berkeley) 6/2/93
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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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1.229 libgrypt 1.6.3

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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'.  
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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1.230 libgpg-error 1.19

1.230.1 Available under license :

```
/* init.c - Initialize the GnuPG error library.  
Copyright (C) 2005, 2010 g10 Code GmbH
```

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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 our DllMain. */
# 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 the DllMain function of a DLL
which statically links to libgpg-error. */

```

```

void
_gpg_err_deinit (int mode)
{
    #if 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 *
_gpgmt_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 = strrchr (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 = strrchr (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);
    }
}

```

```

    }
#undef 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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Version 2.1, February 1999

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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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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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1.239 libnet-ssleay-perl 1.65

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1.240 libnewt 0.52.18

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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 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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1.241 libnewt-python 0.52.18

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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1.243 libodbc++ 0.2.3

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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.)

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.

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

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

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

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- 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.

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1.245 libpcap 1.6.2

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1.246 libpcre 8.37

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1.247 Libpq 9.1 :10

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1.248 libpthread-stubs 0.3

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

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

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.

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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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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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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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.

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1.254 libsm 1.2.2

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1.255 libtool_libltdl 2.2.6 :15.5.el6

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% complete document in each bug report with which we can reproduce the
% problem. Patches are, of course, greatly appreciated.
%
% To process a Texinfo manual with TeX, it's most reliable to use the
% texi2dvi shell script that comes with the distribution. For a simple
```

```
% manual foo.texi, however, you can get away with this:
% tex foo.texi
% texindex foo.??
% tex foo.texi
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.
%
% It is possible to adapt texinfo.tex for other languages, to some
% extent. You can get the existing language-specific files from the
% full Texinfo distribution.
```

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Version 2.1, February 1999

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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.

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1.256 libusb-compat 0.1.5

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1.257 libusb1 1.0.19

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1.258 libuuid 2.17.2 :12.9.el6

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```
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```

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```
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```

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1.260 libxau 1.0.8

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1.263 libxml2 2.9.2

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1.264 lighttpd 1.4.36

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1.265 linux-libc-headers 4.1

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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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1.266 linux-yocto 4.1.8

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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
line to the DVB mailing list)

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Version 1.0

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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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```
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```

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

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1.273 Isof 4.89

1.273.1 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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=====

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: AFSCfg; Inventory; and Customize. The AFSCfg script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSCfg 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
 osrgcc 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
 solariscc 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 AFSConfig 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 `HASSESECURITY` and `HASNOSOCKSECURITY` had when `lsof` was built, reporting:

"Only root can list all files;"
if `HASSESECURITY` was defined and `HASNOSOCKSECURITY` wasn't defined;

"Only root can list all files, but anyone can list socket files."
if `HASSESECURITY` and `HASNOSOCKSECURITY` were both defined;

"Anyone can list all files;"
if `HASSESECURITY` wasn't defined. (The definition of `HASNOSOCKSECURITY` doesn't matter when `HASSESECURITY` isn't defined.)

You should carefully consider the implications of using the default security mode. When `lsof` is compiled in the absence of the `HASSESECURITY` 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 of 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 Isof 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 check. 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 Isof 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 Isof 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>. 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 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 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.

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, 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 NSF 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 solarisc compiler 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

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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

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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

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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

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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.

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Environment Variables Affecting the Configure Script

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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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1.274 lua 5.1.4

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1.275 m4 1.4.17

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1.277 make 4.1

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"Source code" for a work means the preferred form of the work for

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1.278 mdadm 3.3.4

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1.287 ncd u 1.3

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1.288 ncurses 5.9

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1.289 ndisc6 0.7.1 :1.e15.rf

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1.290 neon 0.30.1

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1.292 Net-snmp 5.7.2.1

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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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1.294 netbase 5.3

1.294.1 Available under license :

This package was created by Peter Tobias tobias@et-inf.fho-empden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns ajt@debian.org until 2001.

It is currently maintained by Marco d'Itri md@linux.it.

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1.295 nettle 3.1.1

1.295.1 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; \
} while (0)

```

```

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; \
    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; \
} while (0)

```

```

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; \
    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; \
    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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Version 3, 29 June 2007

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37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.300 ntp_GPL 4.2.4p8 :2.e16

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Version 2, June 1991

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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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```

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```
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```

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Ty Coon, President of Vice

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1.301 open-vm-tools 10.0.5

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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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>>> icu4c-4.4.1

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```
=====
orm-xsd.rsrc - included in the openjpa jar, taken from:
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  http://java.sun.com/xml/ns/persistence/orm_2_0.xsd
persistence-xsd.rsrc - included in the openjpa jar, taken from:
  http://java.sun.com/xml/ns/persistence/persistence_1_0.xsd
persistence_2_0-xsd.rsrc - included in the openjpa jar, taken from:
  http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd
websphere-uow-api.jar - this jar file contains WebSphere proprietary
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1.305 opensaml 2.5.3

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1.326 opkg-utils 0.1.8

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Version 2, June 1991

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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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1.327 org.eclipse.jdt.core 3.8.2.v20130121

1.327.1 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:
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  <meta charset='utf-8'>

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content="eclipse/eclipse.jdt.core" name="twitter:title" /><meta content="JDT/Core project repository
(eclipse.jdt.core)" name="twitter:description" />
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  <meta name="user-login" content="">

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  <link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#4078c0">
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https://github.com/eclipse/eclipse.jdt.core.git">
```

```
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dimension-user_login" /><meta content="2666605" name="octolytics-dimension-repository_id" /><meta
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<link rel="canonical" href="https://github.com/eclipse/eclipse.jdt.core/tree/v20130121-145634" data-pjax-
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</head>
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```
<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-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=%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 0 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 2.22 0 4 1.8 4 4 0 2.22-1.78 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="/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 tooltiped tooltiped-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
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-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">

<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 13H6V6h5v2H8v5z M7 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 1.02-1.73z M2 1.8c0.66 0 1.2 0.55 1.2 1.2s-0.55 1.2-1.2 1.2 1.2-1.2-0.55-1.2 1.2-1.2z

```

```
m0 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 1.2z m6-8c-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 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">

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<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 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>
  </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">

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        <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 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 7-3.14 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"

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        rel="nofollow"
        data-ga-click="Repository, download zip, location:repo overview">
    Download ZIP
</a>
</div>
</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 3.75-1.48-1.48 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 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="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 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="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 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="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 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="APT_32">
      APT_32
    </span>
  </a>
</div>
```



```

    </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 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="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 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="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 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="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 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="BETA_JAVA9">
      BETA_JAVA9
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "

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```

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 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="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 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="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 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="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 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="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 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="JSR_308">
      JSR_308
    </span>
  </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 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="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 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="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 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="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 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="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 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_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 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_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 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_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 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_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 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_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 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_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 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_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 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_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 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_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 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_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 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_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 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_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"
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>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R3_6_maintenance"
data-name="R3_6_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_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>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
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>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
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"
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="R4_3_maintenance_Java8">
R4_3_maintenance_Java8
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R4_3_maintenance"
data-name="R4_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="R4_3_maintenance">
R4_3_maintenance
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/R4_4_maintenance"
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 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="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 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="R4_4_1_maintenance">
R4_4_1_maintenance
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

```

```

href="/eclipse/eclipse.jdt.core/tree/R4_5_maintenance"
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"
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_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 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="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 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="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 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="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 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_402">
      THAW_402
    </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">
    <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="THAW_452_R30x">
      THAW_452_R30x
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/ajain/bug378024"
    data-name="ajain/bug378024"
    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="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">
    <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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    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="defender">
      defender
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/integration"
    data-name="integration"
    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="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"
    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="jarthana/backport">
      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"
    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="jeromel">
      jeromel
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/master"
    data-name="master"
    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="master">
      master
    </span>
  </a>

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<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/mmatela/backport"
  data-name="mmatela/backport"
  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="mmatela/backport">
    mmatela/backport
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/ott_stream"
  data-name="ott_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="ott_stream">
    ott_stream
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/perf_30"
  data-name="perf_30"
  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_30">
    perf_30
  </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">
  <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_31">
    perf_31
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/perf_32x"
  data-name="perf_32x"
  data-skip-pjax="true"

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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_32x">
perf_32x
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/perf_33x"
data-name="perf_33x"
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_33x">
perf_33x
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/perf_34x"
data-name="perf_34x"
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_34x">
perf_34x
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/perf_35x"
data-name="perf_35x"
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_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">

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    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"
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="perf_37x">
    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">
  <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="perf_213">
    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 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="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 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/betaJ9New">
    sasikanth/betaJ9New
  </span>
</a>

```

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<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">
  <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/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 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/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 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/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">
  <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/sasi_bug405778">
    sasikanth/sasi_bug405778
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

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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"
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>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
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"
data-name="sherrmann/NewTypeInference"
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/NewTypeInference">
sherrmann/NewTypeInference
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/sherrmann/NullAnnotationsForFields"
data-name="sherrmann/NullAnnotationsForFields"
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 "

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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"
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="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 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="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"
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="unlabeled-1.1.2">
    unlabeled-1.1.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.1.4"
data-name="unlabeled-1.1.4"
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 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 "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.2.4"
data-name="unlabeled-1.2.4"

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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 js-select-menu-filter-text" title="unlabeled-1.2.4">
    unlabeled-1.2.4
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.2.12"
    data-name="unlabeled-1.2.12"
    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="unlabeled-1.2.12">
    unlabeled-1.2.12
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.3.2"
    data-name="unlabeled-1.3.2"
    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 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-1.3.2">
    unlabeled-1.3.2
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.3.8"
    data-name="unlabeled-1.3.8"
    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 js-select-menu-filter-text" title="unlabeled-1.3.8">
    unlabeled-1.3.8
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.3.12"
    data-name="unlabeled-1.3.12"
    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 js-select-menu-filter-text" title="unlabeled-1.3.12">
  unlabeled-1.3.12
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.4.2"
  data-name="unlabeled-1.4.2"
  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-1.4.2">
    unlabeled-1.4.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.5.2"
  data-name="unlabeled-1.5.2"
  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-1.5.2">
    unlabeled-1.5.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.6.2"
  data-name="unlabeled-1.6.2"
  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-1.6.2">
    unlabeled-1.6.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.7.2"
  data-name="unlabeled-1.7.2"
  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-1.7.2">
    unlabeled-1.7.2
  </span>
</a>

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<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.8.2"
  data-name="unlabeled-1.8.2"
  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-1.8.2">
    unlabeled-1.8.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.9.2"
  data-name="unlabeled-1.9.2"
  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-1.9.2">
    unlabeled-1.9.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.10.2"
  data-name="unlabeled-1.10.2"
  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-1.10.2">
    unlabeled-1.10.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.11.2"
  data-name="unlabeled-1.11.2"
  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-1.11.2">
    unlabeled-1.11.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.11.4"
  data-name="unlabeled-1.11.4"
  data-skip-pjax="true"

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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-1.11.4">
unlabeled-1.11.4
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.12.2"
data-name="unlabeled-1.12.2"
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-1.12.2">
unlabeled-1.12.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.13.2"
data-name="unlabeled-1.13.2"
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-1.13.2">
unlabeled-1.13.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.16.2"
data-name="unlabeled-1.16.2"
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-1.16.2">
unlabeled-1.16.2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.20.2"
data-name="unlabeled-1.20.2"
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-1.20.2">

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        unlabeled-1.20.2
    </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.28.2"
  data-name="unlabeled-1.28.2"
  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 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-1.28.2">
    unlabeled-1.28.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/unlabeled-1.91.2"
  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 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-1.91.2">
    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 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="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"

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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="v200704286-1400">
    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 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="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 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="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 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="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 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="v20130226-171510">
  v20130226-171510
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  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>

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<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">
  <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"

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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
  </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>

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```
v20130125-152858
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20130124-092006"
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 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="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 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="v20130122-193356">
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v20130122-095742
</span>
</a>
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data-name="v20130121-145634"
data-skip-pjax="true"
rel="nofollow">
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v20130121-145634
</span>
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rel="nofollow">

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rel="nofollow">
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    </span>
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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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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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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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    v20120818-030549
  </span>
</a>
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  href="/eclipse/eclipse.jdt.core/tree/v20120814-155456"
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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
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</a>
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</a>
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    v20120809-105805
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</a>
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  href="/eclipse/eclipse.jdt.core/tree/v20120808-155455"
  data-name="v20120808-155455"
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rel="nofollow">
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</a>
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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>
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    v20120808-112019
  </span>
</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120808-095233"
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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/v20120808-063259"
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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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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/eclipse/eclipse.jdt.core/tree/v20120807-125035"
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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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v20120807-125035
</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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v20120806-091125
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href="/eclipse/eclipse.jdt.core/tree/v20120806-083024"
data-name="v20120806-083024"
data-skip-pjax="true"
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v20120806-083024
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v20120802-131734
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</a>
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href="/eclipse/eclipse.jdt.core/tree/v20120802-065627"
data-name="v20120802-065627"
data-skip-pjax="true"
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v20120802-065627
</span>
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<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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    v20120731-185758
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  </span>
</a>
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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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    v20120730-111738
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data-skip-pjax="true"
rel="nofollow">

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```

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  </a>
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      v20120725-181921
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  </a>
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      v20120724-000238

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    v20120723-063905
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    v20120720-102920
  </span>
</a>
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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120716-122243"

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v20120716-122243
</span>
</a>
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data-skip-pjax="true"
rel="nofollow">
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v20120716-092013
</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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v20120713-105847
</span>
</a>
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rel="nofollow">
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v20120711-200721
</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 11.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
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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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    v20120709-070331
  </span>
</a>
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  data-name="v20120705-160103"
  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>
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    v20120705-160103
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</a>
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  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120705-091147"
  data-name="v20120705-091147"
  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="v20120705-091147">
    v20120705-091147
  </span>
</a>

```

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</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120705-052716"
  data-name="v20120705-052716"
  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="v20120705-052716">
    v20120705-052716
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120628-092129"
  data-name="v20120628-092129"
  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="v20120628-092129">
    v20120628-092129
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120531-0637"
  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 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="v20120531-0637">
    v20120531-0637
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120529-1704"
  data-name="v20120529-1704"
  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="v20120529-1704">
    v20120529-1704
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/eclipse/eclipse.jdt.core/tree/v20120529-1424"
  data-name="v20120529-1424"

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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="v20120529-1424">
      v20120529-1424
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120529-0904"
    data-name="v20120529-0904"
    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="v20120529-0904">
      v20120529-0904
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/eclipse/eclipse.jdt.core/tree/v20120523-1356"
    data-name="v20120523-1356"
    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="v20120523-1356">
      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">

Permalink

<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 0.86-0.55S15.89 12.81 15.72 12.5z" data-bbox="152 528 300 597"/></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 16 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" data-bbox="152 688 300 739"/></td>

</td>

<td class="content">

org.eclipse.jdt.annotation

</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>
  <td class="content">
    <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-145634/org.eclipse.jdt.apt.core" class="js-navigation-open" id="b26c40449e86eb2401746f14494643a5-b5f9f6aca6a0299cc7625387c39a483d7b88d532" title="org.eclipse.jdt.apt.core">org.eclipse.jdt.apt.core</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>
  <td class="content">
    <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-145634/org.eclipse.jdt.apt.pluggable.core" class="js-navigation-open" id="1557040a2ec0a30f066f4ffedcaaa2ee-f4374a96f80d5312594d53a9aba21e7f562e30e8" title="org.eclipse.jdt.apt.pluggable.core">org.eclipse.jdt.apt.pluggable.core</a></span>
  </td>
  <td class="message">
    <span class="css-truncate css-truncate-target">
    </span>
  </td>
  <td class="age">

```



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    <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
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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-
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23c3259faf3ace3592b1fa1b315a4342d18be8bf"
title="org.eclipse.jdt.apt.pluggable.tests">org.eclipse.jdt.apt.pluggable.tests</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>
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</tr>
<tr class="js-navigation-item">
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    <svg aria-hidden="true" class="octicon octicon-file-directory" height="16" version="1.1" viewBox="0 0 14
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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.apt.tests" class="js-navigation-open" id="03732939bdddb0027c9abeeee1315d2f-
8cc44cda2ee13e844defd2615465e6ce8cd3904d" title="org.eclipse.jdt.apt.tests">org.eclipse.jdt.apt.tests</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>
  <td class="content">
    <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-
145634/org.eclipse.jdt.apr.ui" class="js-navigation-open" id="7a297a3d48b0754fa3ebf2af2294ed6c-
15705c09a0e88d00981a1cfc616099f0f172d3fb" title="org.eclipse.jdt.apr.ui">org.eclipse.jdt.apr.ui</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">
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    <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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    <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-
145634/org.eclipse.jdt.compiler.apr.tests" class="js-navigation-open" id="efabb8504b15245fe6c3cee808ca6d98-
4fe035873306f98a9c28dec30e3eae357b7d9cac"
title="org.eclipse.jdt.compiler.apr.tests">org.eclipse.jdt.compiler.apr.tests</a></span>
  </td>
  <td class="message">
    <span class="css-truncate css-truncate-target">
  </span>
  </td>
  <td class="age">
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1-0.45 1-1V5c0-0.55-0.45-1-1-1z m-7 0H1v-1h5v1z"></path></svg>
    

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</td>
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</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">
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  <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">
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</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">
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</td>
<td class="content">
  <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-145634/org.eclipse.jdt.compiler.tool" class="js-navigation-open" id="95a8eaea1403e8cd35decef8b952f839-

```

```

a719d25aad64227508c762fcdb2ce0db433188fc"
title="org.eclipse.jdt.compiler.tool">org.eclipse.jdt.compiler.tool</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>
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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
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2118b24c12bc0191317293f3816c086194b0f89b"
title="org.eclipse.jdt.core.tests.builder">org.eclipse.jdt.core.tests.builder</a></span>
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</span>
</td>
  <td class="age">
    <span class="css-truncate css-truncate-target"></span>
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  </td>
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title="org.eclipse.jdt.core.tests.compiler">org.eclipse.jdt.core.tests.compiler</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>
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<tr class="js-navigation-item">
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    <svg aria-hidden="true" class="octicon octicon-file-directory" height="16" version="1.1" viewBox="0 0 14
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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-
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title="org.eclipse.jdt.core.tests.model">org.eclipse.jdt.core.tests.model</a></span>
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  </span>
</td>
  <td class="age">
    <span class="css-truncate css-truncate-target"></span>
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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-
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title="org.eclipse.jdt.core.tests.performance">org.eclipse.jdt.core.tests.performance</a></span>
  </td>
  <td class="message">
    <span class="css-truncate css-truncate-target">
  </span>
</td>
  <td class="age">

```

```

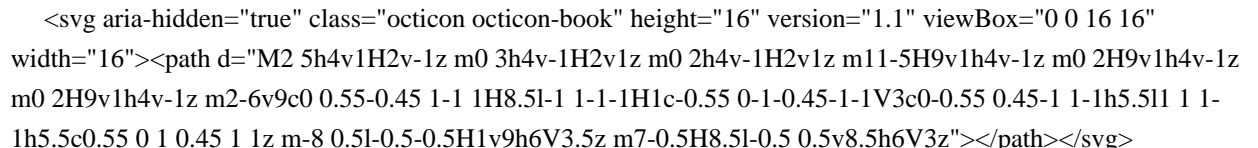
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1-0.45 1-1V5c0-0.55-0.45-1-1-1z m-7 0H1v-1h5v1z"></path></svg>
    
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  <td class="content">
    <span class="css-truncate css-truncate-target"><a href="/eclipse/eclipse.jdt.core/tree/v20130121-
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879e0682d75491e41c6f903656b91aab7cc63333" title="org.eclipse.jdt.core">org.eclipse.jdt.core</a></span>
  </td>
  <td class="message">
    <span class="css-truncate css-truncate-target">
    </span>
  </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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ecd8f25e61392759f2be89778c78aecd187e8acd" title=".gitignore">.gitignore</a></span>
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  <td class="message">
    <span class="css-truncate css-truncate-target">
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```
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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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40229f2f456c147fb374383622e21a82a992f702" title="README.md">README.md</a></span>
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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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67c218cfc796b81bad87dd2ffd413a283a7e72c7" title="pom.xml">pom.xml</a></span>
</td>
<td class="message">
  <span class="css-truncate css-truncate-target">
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<td class="age">
  <span class="css-truncate css-truncate-target"></span>
</td>
</tr>
</tbody>
</table>

</include-fragment>

<div id="readme" class="readme boxed-group clearfix announce instapaper_body md">
  <h3>
```

 README.md

[JDJ Core](#)

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:

- an incremental or batch Java compiler that can run standalone or as part of the Eclipse IDE
- Java source and class file indexer and search infrastructure
- a Java source code formatter
- APIs for code assist, access to the AST and structured manipulation of Java source.

For more information, refer to the [JDJ wiki page](http://wiki.eclipse.org/JDT_Core) or the [JDJ project overview page](http://www.eclipse.org/projects/project.php?id=eclipse.jdt.core).

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</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>
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<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"
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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
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11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>
</a>
<ul class="site-footer-links">
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text:privacy">Privacy</a></li>
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text:security">Security</a></li>
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  <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 12.5z"
M9 12H7V10h2V12z" data-bbox="15.72 12.51 16 16"></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 8l3.75 3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.25l1.48-1.48
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>
```

```
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```

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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">
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width="12"><path d="M7.48 8l3.75 3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.25l1.48-1.48
3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
</button>
</div>
</div>

</body>
</html>
```

1.328 oro 2.0.8

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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.

1.329 paranamer 2.6

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1.331 pbkdf2 1.0

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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;
}
```

1.332 pciutils 3.3.1

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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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```
<one line to give the program's name and a brief idea of what it does.>  
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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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program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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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>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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1.338 popt 1.16

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1.340 pps-tools 0.0.0

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1.341 procps 3.3.10

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1.342 psqldb 09.01.0100

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#
```

1.343 ptest-runner 1.0

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1.344 Python 2.7.9

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.347 python-ipy 0.83

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1.348 python-lockfile 0.10.2

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1.349 python-netaddr 0.7.14

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1.350 python-paramiko 1.15.2

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1.353 python-pycrypto 2.6.1

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Last updated: 2009-02-28

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=== EOF ===

## 1.354 python-pygments\_tests-examplefiles

### 1.1.1 :1.e16

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## 1.355 python-pyobject 2.28.3

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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)
```

# 1.357 Quartz 1.5.2

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#### JAVASERVLET, VERSION 2.3

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\* mod\_mime\_magic: MIME type lookup via file magic numbers

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For the server\util\_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
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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:

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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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## 1.366 rsyslog 7.4.4

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## 1.367 saaj-impl 1.3.25

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# 1.369 scala-compiler 2.10.0

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```
<!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">

      <p>Copyright (c) 2002-<span class="current-year">&nbsp;</span> EPFL<br />
      Copyright (c) 2011-<span class="current-year">&nbsp;</span> Lightbend, Inc. (formerly Typesafe, Inc.)</p>

```

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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>
```

# 1.370 scannotation 1.0.3

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## 1.371 sed 4.2.2

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Version 3, 29 June 2007

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## 1.380 shared-mime-info 1.4

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## 1.386 snmp4j-agent 1.4.2

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\*/

# 1.401 sudo 1.8.14p3

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/\*

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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>
```

```
#ifndef 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++; *pe != RBRACKET && *pe != 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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*/
```

```
#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"
```

```
#ifndef EAFNOSUPPORT
```

```
# define EAFNOSUPPORT EINVAL
```

```
#endif
```

```
#ifndef NS_INADDRSZ
```

```
# ifdef INADDRSZ
```

```
# define NS_INADDRSZ INADDRSZ
```

```
# else
```

```
# define NS_INADDRSZ 4
```

```
# endif
```

```
#endif
```

```
#ifndef NS_IN6ADDRSZ
```

```
# ifdef IN6ADDRSZ
```

```
# define NS_IN6ADDRSZ IN6ADDRSZ
```

```
# else
```

```
# define NS_IN6ADDRSZ 16
```

```
# endif
```

```

#endif
#ifndef NS_INT16SZ
# ifdef 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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*/
```

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jloup@gzip.org      madler@alumni.caltech.edu  
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```
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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:
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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 = rbroot(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 == rbroot(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) == rbroot(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 = rbfirst(tree); /* exit loop */
}
}
}
node->color = black;

debug_return;
}

```

```

/* $OpenBSD: vfprintf.c,v 1.67 2014/12/21 00:23:30 daniel Exp $ */
/*-
 * Copyright (c) 1999-2005, 2008, 2010-2015
 *   Todd C. Miller <Todd.Miller@courtesan.com>
 * Copyright (c) 1990, 1993
 * The Regents of the University of California. All rights reserved.
 *
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 * Chris Torek.
 *
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 * modification, are permitted provided that the following conditions
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 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
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 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * 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 *argtablesiz);
static int __grow_type_table(unsigned char **typetable, int *tablesiz);
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 *
__wconv(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 = wctomb(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
*/
#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 */
char expchar; /* exponent character: [eEpP\0] */
char *dtoaend; /* pointer to end of converted digits */
int expsize; /* character count for expstr */
int lead; /* sig figs before decimal or group sep */
int ndig; /* actual number of digits returned by dtoa */
char expstr[MAXEXPDIG+2]; /* buffer for exponent string: e+ZZZ */
char *dtoaresult = NULL;
#endif

uintmax_t _umax; /* integer arguments %[diouxX] */
enum { OCT, DEC, HEX } base; /* base for %[diouxX] conversion */
int dprec; /* a copy of prec if %[diouxX], 0 otherwise */
int realsz; /* field size expanded by dprec */
int size; /* size of converted field or string */
const char *xdigs = ""; /* digits for %[xX] conversion */
#define NIOV 8
char buf[BUF]; /* buffer with space for digits of uintmax_t */
char ox[2]; /* space for 0x; ox[1] is either x, X, or \0 */
char *str; /* pointer to string to fill */
char *estr; /* pointer to last char in str */
union arg *argtable; /* args, built due to positional arg */
union arg statargtable[STATIC_ARG_TBL_SIZE];
size_t argtablesiz;
int nextarg; /* 1-based argument index */
va_list orgap; /* original argument pointer */
#ifdef PRINTF_WIDE_CHAR

```

```

char *convbuf; /* buffer for wide to multi-byte conversion */
#endif

/*
 * Choose PADSIZe to trade efficiency vs. size. If larger printf
 * fields occur frequently, increase PADSIZe and make the initialisers
 * below longer.
 */
#define PADSIZe 16 /* pad chunk size */
static char blanks[PADSIZe] =
    {' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' ',' '};
static char zeroes[PADSIZe] =
    {'0','0','0','0','0','0','0','0','0','0','0','0','0','0','0','0'};

static const char xdigs_lower[16] = "0123456789abcdef";
static const char xdigs_upper[16] = "0123456789ABCDEF";

/* Print chars to "str", (allocate as needed if alloc is set). */
#define PRINT(ptr, len) do { \
    const char *p = ptr; \
    const char *endp = ptr + len; \
    while (p < endp && (str < estr || alloc)) { \
        if (alloc && str >= estr) { \
            char *t; \
            ssize = (ssize << 1) + 1; \
            if (!(t = realloc(*strp, ssize))) { \
                free(str); \
                *strp = NULL; \
                ret = -1; \
                goto done; \
            } \
            str = t + (str - *strp); \
            estr = t + ssize - 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 > PADSIZe) { \
            PRINT(pstr, PADSIZe); \
            n -= PADSIZe; \
        } \
        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) {
        mbsstate_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 (dtoaresult)
    __freedtoa(dtoaresult);
if (flags & LONGDBL) {
    fparg.ldbl = GETARG(long double);
    dtoaresult = cp =
        __hldtoa(fparg.ldbl, xdigs, prec,
            &expt, &signflag, &dtoaend);
    if (dtoaresult == NULL) {
        errno = ENOMEM;
        goto done;
    }
} else {
    fparg.dbl = GETARG(double);
    dtoaresult = 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 decpt */
        prec = DEFPPREC + 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 */
#ifdef NO_PRINTF_PERCENT_N
case 'n':
if (flags & LLONGINT)
    *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
#ifdef 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':
_uamax = UARG();
base = DEC;
goto nosign;
case 'X':
xdigs = xdigs_upper;
goto hex;
case 'x':
xdigs = xdigs_lower;
hex: _uamax = UARG();
base = HEX;
/* leading 0x/X only if non-zero */
if (flags & ALT && _uamax != 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; realsz 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
#ifdef 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 *argtablesize)
{
    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 tablesize; /* 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 >= tablesize) ? \
    __grow_type_table(&typetable, &tablesize) : 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 */
#ifndef 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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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* @(#)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; \
    (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)->qh_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); \
*(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, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam

Hunter, Michael T.  
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  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig

Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert

Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
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  
Hein, Jochen  
Jerovek, Damir  
Karvonen, Jorma  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel



Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

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```
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```

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```

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```
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```

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Ty Coon, President of Vice
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This package was debianized by Paul Russell <prussell@debian.org> on Sun, 31 Mar 2002 14:08:57 +0200.

It was downloaded from <http://ccache.samba.org/ftp/ccache/>

The ccache-zlib patch was downloaded from <http://www.gustaebel.de/lars/ccache/>

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## 1.404 swig - WAD 1.3.40 :6.e16

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## 1.405 syslogd 1.4.1 :26\_EL

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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Version 3, 29 June 2007

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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
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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

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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
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
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- web-common\_3\_0.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
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The original XML Schemas for Java EE Deployment Descriptors:

- jsp\_2\_2.xsd

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- web-common\_3\_0.xsd
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- javaee\_web\_services\_1\_3.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- jsp\_2\_2.xsd
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- web-fragment\_3\_0.xsd
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## 1.414 Trio 0.0

### 1.414.1 Available under license :

README -- trio

Trio is a package with portable string functions. Including printf() clones and others.

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Trio is intended to be an integral part of another application, so we have not done anything to create a proper installation.

Compile with 'make' (edit the Makefile if you want a release build)

Test the package with 'make test'

Install by copying trio.h, triop.h, and libtrio.a (and man/man?/\* if you want documentation) to the appropriate directories.

Catch some usage examples in example.c

Send feedback and patches to the mailing list, subscription and other information is found here:

<http://lists.sourceforge.net/lists/listinfo/ctrio-talk>

Enjoy!

Trio web page

<http://daniel.haxx.se/trio/>

## 1.415 Tuscany 1.4

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Version 2.0, January 2004

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woden-impl-dom-1.0M8.jar  
wss4j-1.5.4.jar  
wstx-asl-3.2.4.jar  
xalan-2.7.0.jar  
xbean-naming-2.7.jar  
xercesImpl-2.8.1.jar  
xml-apis-1.3.03.jar  
xmlbeans-2.3.0.jar  
xmlParserAPIs-2.6.0.jar  
xml-resolver-1.1.jar  
xmlsec-1.4.2.jar  
XmlSchema-1.4.2.jar

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axion-1.0-M3-dev.jar

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dom4j-1.6.1.jar

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codegen-2.2.3.jar  
codegen-ecore-2.2.3.jar

common-2.2.3.jar  
ecore-2.2.3.jar  
ecore-change-2.2.3.jar  
ecore-xmi-2.2.3.jar  
xsd-2.2.3.jar  
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saxon-8.7.jar

saxon-dom-8.7.jar  
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\$Id: LICENSE.txt 156 2003-09-26 17:36:37Z jstrachan \$

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jaxb-api-2.1.jar,

jaxb-impl-2.1.7.jar,

jaxb-xjc-2.1.7.jar,

jsr181-api-1.0-MR1.jar,

jsr250-api-1.0.jar,

jaxws-api-2.1.jar,

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Revision level 1.1, last updated on 2007/11/19

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commonj/sdo/ChangeSummary\$Setting.class  
commonj/sdo/ChangeSummary.class  
commonj/sdo/DataGraph.class  
commonj/sdo/DataObject.class  
commonj/sdo/helper/CopyHelper.class  
commonj/sdo/helper/DataFactory.class  
commonj/sdo/helper/DataHelper.class  
commonj/sdo/helper/EqualityHelper.class  
commonj/sdo/helper/HelperContext.class  
commonj/sdo/helper/TypeHelper.class  
commonj/sdo/helper/XMLDocument.class  
commonj/sdo/helper/XMLHelper.class  
commonj/sdo/helper/XSDHelper.class  
commonj/sdo/impl/ExternalizableDelegator\$Resolvable.class  
commonj/sdo/impl/ExternalizableDelegator.class  
commonj/sdo/Property.class  
commonj/sdo/Sequence.class  
commonj/sdo/Type.class  
xml/datagraph.xsd  
xml/sdoJava.xml  
xml/sdoJava.xsd  
xml/sdoModel.xml  
xml/sdoModel.xsd  
xml/sdoXML.xml  
xml/sdoXML.xsd

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\$Id: LICENSE.txt,v 1.5 2006/02/05 21:49:04 elharo Exp \$

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## 1.416 tzdata 2015g

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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

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```

# 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
# 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
# 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](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](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](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.thedailystar.net/newDesign/latest_news.php?nid=22817)  
# [http://www.worldtimezone.com/dst\\_news/dst\\_news\\_bangladesh06.html](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.xinjiang.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/Urumqi 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/Urumqi 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 givw 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-pei

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 GMTTOFF 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.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 GMTTOFF 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-U, s,  
# 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 "Toddius"  
# (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 GMTOFF RULES FORMAT [UNTIL]

# Hovd, a.k.a. Chovd, Dund-Us, 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](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 GMTOFF 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> (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 Telcom 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
#
# 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%sT 1991 Sep 1 # independence  
5:00 RussiaAsia UZ%sT 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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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/>> for updated versions of these files.

Please send comments or information to [tz@iana.org](mailto:tz@iana.org).

# 1.417 udev 182.0

## 1.417.1 Available under license :

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Version 2.1, February 1999

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## 1.418 unixodbc 2.2.12

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, 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.

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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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# 1.420 update-rc.d 0.7

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```
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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
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 $stop`
stoptlinks="0/$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

```

## 1.421 usbutils 7.0

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## 1.423 utf8proc 1.1.5

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## 1.424 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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## 1.426 valgrind 3.10.1

### 1.426.1 Available under license :

```
/* -*- c -*-
```

-----

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-----

This file is part of Valgrind, a dynamic binary instrumentation framework.

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-----  
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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(__CYGWIN__)
```

```

    || 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_NOREDIR_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 nraddr; /* 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 nraddr; /* 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 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_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 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_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 naddr; /* 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_rlval) \
{ volatile OrigFn* _zzq_orig = &(_zzq_rlval); \
  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->nraddr = __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;
_zyq_args[0] = (unsigned long long int)(_zzq_request);
_zyq_args[1] = (unsigned long long int)(_zzq_arg1);
_zyq_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_NOEDIR_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-redirect 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_FNNAME_ZU(soname,fnname) \
VG_CONCAT4(_vgw00000ZU_,soname,_,fnname)

```

```

#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.nraddr;
    _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.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
"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.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);       \
_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])              \
    : /*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(\_\_GNUC\_\_) && defined(\_\_GCC\_HAVE\_DWARF2\_CFI\_ASM)',



this expression excludes Darwin.

.cfi 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(__GNUC__) && 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"        \
    ".cfi_remember_state\n\t"    \
    ".cfi_def_cfa rbp, 0\n\t"
# define VALGRIND_CFI_EPILOGUE    \
    "movq %%r15, %%rbp\n\t"      \
    ".cfi_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 $0xfffffffffff0, %%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 */ \
    ); \
    lval = (__typeof__(lval)) _res; \
} while (0)
```

```

    VALGRIND_CALL_NOEDIR_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_NOEDIR_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.nraddr;
    _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.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
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              \
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.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);              \
__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.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);
    __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_NOEDIR_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_NOEDIR_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.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 \

```



```

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.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
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.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); \
_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.nraddr; \
    __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" \
"lwz 3,4(11)\n\t" /* arg1->r3 */ \
"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_WW(lval, orig, arg1,arg2) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[3]; \
volatile unsigned long _res; \
_argvec[0] = (unsigned long)_orig.nradrr; \
_argvec[1] = (unsigned long)arg1; \
_argvec[2] = (unsigned long)arg2; \
__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 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.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 \
"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,arg4,arg5) \
do { \
volatile OrigFn _orig = (orig); \
volatile unsigned long _argvec[6]; \
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;             \
__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 7,20(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_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.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;
    __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 7,20(11)\n\t"
        "l wz 8,24(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_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.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; \
__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 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.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(                           \
    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 7,20(11)\n\t"                          \
    "l wz 8,24(11)\n\t"                          \
    "l wz 9,28(11)\n\t"                          \
    "l wz 10,32(11)\n\t" /* arg8->r10 */       \
    "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_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
    "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_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_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
        "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.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;
_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.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 \
    "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.nradrr; \
_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.nradrr; \
    _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_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_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_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_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(11)\n\t"
        /* arg11 */
        "ld 3,88(11)\n\t"
        "std 3,128(11)\n\t"
        /* arg10 */
        "ld 3,80(11)\n\t"
        "std 3,120(11)\n\t"
        /* arg9 */
        "ld 3,72(11)\n\t"
        "std 3,112(11)\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)

#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.nradrr;
    _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.nradrr;
    _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_NOEDIR_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_NOEDIR_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.nradrr;
_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.nradrr;

```

```

_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_NOEDIR_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_NOEDIR_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_NOEDIR_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.nraddr; \
    __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\t" \
        : /*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.nraddr; \
    _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.nraddr; \
    _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.nradddr;  \
_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.nradddr;  \
    _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.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( \
        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_NOEDIR_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_NOEDIR_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.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 \
        "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_NOEDIR_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.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_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.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, #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.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                       \
    "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_NOEDIR_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" \
: /*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.nradddr;
_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.nradddr;
    _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.nradddr;
_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.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(
        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" \
    )
} while (0)

```

```

);
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.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);
__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.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(
    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
    )
} while (0)

```

```

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.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_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.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); \
_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           \
    , "d"(__builtin_dwarf_cfa())
# 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.nradrr;  \
__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.nradrr; \
    _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"              \
        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.nradrr;          \
_argvec[1] = (unsigned long)arg1;                 \
_argvec[2] = (unsigned long)arg2;                 \
__asm__ volatile(                                 \
    VALGRIND_CFI_PROLOGUE                         \
    "aghi 15,-160\n\t"                             \
    "lg 2, 8(1)\n\t"                               \
    "lg 3,16(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_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_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 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.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
        "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.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(
        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.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_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.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(
        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"          \
"Ig 1, 0(1)\n\t"                    \
VALGRIND_CALL_NOREDIR_R1            \
"Igr %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" \
    "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" \
    "Ig 1, 0(1)\n\t" \
    VALGRIND_CALL_NOREDIR_R1 \
    "Igr %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"
        "lg 1, 0(1)\n\t"
        VALGRIND_CALL_NOREDIR_R1
        "lgr %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.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;
    _argvec[11] = (unsigned long)arg11;
    _argvec[12] = (unsigned long)arg12;
    __asm__ volatile(
        VALGRIND_CFI_PROLOGUE
        "aghi 15,-216\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"
        "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\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.nradrr;      \
_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.nradrr; \
    _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.nradddr;
    _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\t"
        : /*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.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( \
        "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" \

```

```

    :/*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\t"
        :/*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.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(
        "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_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_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(                             \
    "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"                            \
    : /*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"                             \
    : /*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.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(                             \
    "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\t"                         \
    : /*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.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(                             \
    "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_NOEDIR_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_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.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);
_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.nraddr;
    __asm__ volatile(
        "ld $25, 0(%1)\n\t" /* target->t9 */
        VALGRIND_CALL_NOREDIR_T9
        "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.nradrr;    \
_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"                          \
    : /*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.nradrr; \
    _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"                        \
        : /*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.nradrr;
    _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"
    : /*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"
        : /*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.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(
    "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.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(
        "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\t"
        : /*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.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(
        "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\t"
        : /*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.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(
        "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"
    : /*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.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(
        "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"

```

```

    :/*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.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( \
        "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.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( \
        "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.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); \
    _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 vargs by reference and so are  
immune to this problem. \*/

/\* both :: char\* fmt, va\_list vargs (DEPRECATED) \*/

VG\_USERREQ\_\_PRINTF = 0x1401,  
VG\_USERREQ\_\_PRINTF\_BACKTRACE = 0x1402,

/\* both :: char\* fmt, va\_list\* vargs \*/

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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=====  
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](mailto: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:

# 1.431 vSphere Java SDK 1.0

## 1.431.1 Available under license :

open\_source\_licenses\_vi\_sdk\_for\_java\_10(TP).txt

VI SDK for Java 1.0 (tech preview)

February 23, 2009

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sep

## 1.437 xcb-proto 1.11

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```
#ifndef _LIBC
```

```
# 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
/* !_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;

#if defined _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 (!strncmp (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;
        _IO_funlockfile (stderr);

        free (buf);
    }
#else
    fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
        argv[0], argv[d->optind]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
d->optind++;
d->optopt = 0;
return '?';
}

if (pfound != NULL)
{
    option_index = indfound;
    d->optind++;
    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)
            {
#if defined _LIBC && defined USE_IN_LIBIO
                char *buf;
                int n;

```



```

#endif

    if (argv[d->optind - 1][1] == '-')
    {
        /* --option */
#ifdef _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("
%s: option `-%s' doesn't allow an argument\n"),
            argv[0], pfound->name);
#else
        fprintf (stderr, _("
%s: option `-%s' doesn't allow an argument\n"),
            argv[0], pfound->name);
#endif
    }
    else
    {
        /* +option or -option */
#ifdef _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
    }

#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
#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)
        {
#ifdef _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);
            }
#endif
        }
    }
}
#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)
    {
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;
        int n;
#endif

        if (argv[d->optind][1] == '-')
        {
            /* --option */
#ifdef _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 */
#ifdef _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
        }
    }

#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->__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)
        {
            #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;
                int n;
            #endif
            #endif

            if (d->__posixly_correct)
            {
                /* 1003.2 specifies the format of this message. */
                #if defined _LIBC && defined USE_IN_LIBIO
                    n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
                        argv[0], c);
                #endif
            }
        }
    }
}

```

```

#else
    fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
    }
    else
    {
#if defined _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
    }

#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->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);
        }
#endif
        #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 (!strcmp (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 _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);
}
#else
fprintf (stderr, _("%s: option `-%W %s' is ambiguous\n"),
        argv[0], argv[d->optind]);
#endif
}
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)
            {
                if (_LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("\
%s: option `-%W %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 `-%W %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 `%'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);
        }
#endif
    }
}
else
    fprintf (stderr,
        _("%s: option `%'s' 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 _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 = '?';
}
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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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Mark Adler [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

# 1.451 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 Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

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