Open Source Used In Ultra Services Platform Version 6.10

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1.2 adduser 3.113 :nmu3ubuntu4

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1.3 amd64-microcode

3.20180524.1~ubuntu0.16.04.2

1.3.1 Available under license:

This package was debianized by Henrique de Moraes Holschuh <hmh@debian.org> on Sun Jun 10 10:54:36 BRT 2012

It was downloaded from http://www.amd64.org/support/microcode.html up to version 20120910 (now: http://www.amd64.org/microcode.html). For version 20131007 onwards, it was built from the linux-firmware git repository at: https://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git/

Debian only distributes the AMD64 microcode file in its unaltered form.

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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of imagemap.c.

Contributors to this code include:

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Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly
modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
  version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server
  structures passed to them where necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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***********************************************************************

md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
ImapMenu {none, formatted, semiformatted, unformatted}
ImapDefault {error, nocontent, referer, menu, URL}
ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
or: directive URL x.y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified
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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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/****************************************************************************
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* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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   ================

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />

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HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a href="http://httpd.apache.org/lists.html">mailing lists</a>. <script type="text/javascript"><!--//--><![CDATA[_ANDROID]]><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
        d.write('<div id="comments_thread"></div>');
        var s = d.createElement('script');
        s.type = 'text/javascript';
        s.async = true;
        s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
        (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
    }
    else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');</n        
    }
})(window, document);
//--><![CDATA[//-->]
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<script type="text/javascript"><!--//--><![CDATA[<!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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/*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/
For the expat xml parser component:

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and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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***********************************************************************

md5.c: NCSA HTTPd code which uses the md5.c RSA Code

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This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  - ImapMenu {none, formatted, semiformatted, unformatted}
  - ImapDefault {error, nocontent, referer, menu, URL}
  - ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  - Old: directive URL [x,y ...]
  - New: directive URL "Menu text" [x,y ...]
or:  directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr. Darwin’s terms: this has been very significantly modified from the free “file” command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API’s apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it’s only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they’re used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Written by: Philip Hazel <ph10@cam.ac.uk>

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This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.
Contributors to this code include:

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- Eric Haines, erich@eye.com
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- Randy Terbush, randy@zyzzyva.com
  port to Apache module format, "base_uri" and support for relative URLs

- James H. Cloos, Jr., cloos@jhcloos.com
  Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
  The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

- Nathan Kurz, nate@tripod.com
  Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:

- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
  or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

- Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server
  structures passed to them where necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<!--XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXThis file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
</head>

<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p></div>
</body>
</html>
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* httpd@ncsa.uiuc.edu
*
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/*
*/

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* */

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 -----------

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3.
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulia.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
    - ImapMenu {none, formatted, semiformatted, unformatted}
    - ImapDefault {error, nocontent, referer, menu, URL}
    - ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
    - Old: directive URL [x,y ...]
    - New: directive URL "Menu text" [x,y ...]
      or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly
modified from the free "file" command.
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- All functions have had necessary Apache API request or server
  structures passed to them where necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server. The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com Rewrite/reorganization. New handling of default, base and relative URLs. New Configuration directives:

ImapMenu {none, formatted, semiformattted, unformatted}  
ImapDefault {error, nocontent, referer, menu, URL}  
ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x.y ...]
New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified
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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

For the expat xml parser component:

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Written by: Philip Hazel <ph10@cam.ac.uk>

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md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
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Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:
- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
- Old: directive URL [x,y ...]
- New: directive URL "Menu text" [x,y ...]
  or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
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This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

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   Old: directive URL [x,y ...]
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or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.
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- Command-line flags have been removed since they will never be used here.

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Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997
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* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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************************************************************************
*
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/*                          ZeusBench V1.01
               ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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For the server\util_md5.c component:

/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 *
***************************************************************************/

/* md5.c: NCSA HTTPd code which uses the md5.c RSA Code */

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 */

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*/
/
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

```
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# This comes from X11R5 (mit/util/scripts/install.sh).
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/
```
For the expat xml parser component:

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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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*******************************************************************************

md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu {none, formatted, semiformatted, unformatted}
   ImapDefault {error, nocontent, referer, menu, URL}
   ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

* /

For the expat xml parser component:

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This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:

- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu {none, formatted, semiformalized, unformatted}
   ImapDefault {error, nocontent, referer, menu, URL}
   ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
   Old: directive URL [x,y ...]
   New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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install - install a program, script, or datafile
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<!--
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X
This file is generated from xml source: DO NOT EDIT
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
    ImapMenu {none, formatted, semiformatted, unformatted}
    ImapDefault {error, nocontent, referer, menu, URL}
    ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
    Old: directive URL [x,y ...]
    New: directive URL "Menu text" [x,y ...]
or: directive URL x.y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
ImapMenu {none, formatted, semiformatted, unformatted}
ImapDefault {error, nocontent, referer, menu, URL}
ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
      or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
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/************************************************************************
* NCSA HTTPd Server
* Software Development Group
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*
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 */

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/*
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   -------------------

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

For the expat xml parser component:

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License: PCRE
This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:
Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu [none, formatted, semiformatted, unformatted]
   ImapDefault {error, nocontent, referer, menu, URL}
   ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
   Old: directive URL [x,y ...]
   New: directive URL "Menu text" [x,y ...]
   or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by
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1.9 apg 2.2.3.dfsg.1 :2ubuntu1

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1.13 base-files 9.4ubuntu4.8

1.13.1 Available under license:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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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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.)

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- 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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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.

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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.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of 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 
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a) Accompany the work with the complete corresponding 
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to use the modified definitions.)

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

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

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

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

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That's all there is to it!
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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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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
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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
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application. Therefore, Subsection 2d requires that any
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

1.18 bsdutils 1:2.27.1-6ubuntu3.8

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*/

Initialize empty image
f1c9645dbc14efddc7d8a3226685f26eb 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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73f be 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
2e1cee529cb59c9341afe0443f196a1 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

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

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Version 7 8 MS-DOS c ISO-9660 10 AdvFS

Command (m for help):
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<signature of Ty Coon>, 1 April 1989
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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
1beb87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe 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
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
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</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
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<tr>
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<th>Start</th>
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<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
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<tr>
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<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
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</tr>
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<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
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<td>4.4LFS</td>
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<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
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<tr>
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<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
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<tr>
<td>3</td>
<td>Version 7</td>
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<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
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<tr>
<td>4</td>
<td>System V</td>
<td>10</td>
<td>AdvFS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Command (m for help):

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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
2d8e8dff51a88a045db233418dd73fbd 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>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot Start</th>
<th>End Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>&lt;removed&gt;2</td>
<td>4096</td>
<td>20479</td>
<td>8M</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---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

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help): Entering nested BSD disklabel.

<table>
<thead>
<tr>
<th>Command (m for help):</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 unused</td>
</tr>
<tr>
<td>5 4.1BSD</td>
</tr>
<tr>
<td>9 4.4LFS</td>
</tr>
<tr>
<td>d boot</td>
</tr>
<tr>
<td>1 swap</td>
</tr>
<tr>
<td>6 Eighth Edition</td>
</tr>
<tr>
<td>a unknown</td>
</tr>
<tr>
<td>e ADOS</td>
</tr>
<tr>
<td>2 Version 6</td>
</tr>
<tr>
<td>7 4.2BSD</td>
</tr>
<tr>
<td>b HPFS</td>
</tr>
<tr>
<td>f HFS</td>
</tr>
<tr>
<td>3 Version 7</td>
</tr>
<tr>
<td>8 MS-DOS</td>
</tr>
<tr>
<td>c ISO-9660</td>
</tr>
<tr>
<td>10 AdvFS</td>
</tr>
<tr>
<td>4 System V</td>
</tr>
</tbody>
</table>

Command (m for help): GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout------
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
2d8e8df51a8a045db233418dd73f8e bsd.img

---layout------
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
2d8e8df51a8a045db233418dd73f8e bsd.img

---layout------
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
2d8e8df51a8a045db233418dd73f8e bsd.img

---layout------
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
2d8e8df51a8a045db233418dd73f8e bsd.img

---layout------
Device Boot Start End Sectors Size Id Type
<removed> 1 2048 4095 2048 1M 83 Linux
Create default BSD
2e1cee529cb59c9341afe0443f196a1 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

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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a      4096  6144    2049    1M 4.2BSD       0     0   0
b      4096 20479   16384    8M unused       0     0   0
c      0 16065  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): Entering nested BSD disklabel.

Command (m for help): Entering nested BSD disklabel.

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): Entering nested BSD disklabel.

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

1.19 busybox-initramfs 1:1.22.0 :15ubuntu1.4

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.20 bzip2 1.0.6 :8ubuntu0.2

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1.25 console-setup 1.108ubuntu15.5

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legacy12c.bdf, legacy12d.bdf, legacy14a.bdf, legacy14b.bdf,
legacy14c.bdf, legacy14d.bdf, legacy14e.bdf, legacy14f.bdf,
legacy14g.bdf, legacy14h.bdf, legacy14i.bdf, legacy14j.bdf,
legacy14k.bdf, legacy14l.bdf, legacy14m.bdf, legacy14n.bdf,
legacy14o.bdf, legacy14p.bdf, legacy14q.bdf, legacy14r.bdf,
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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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1.29 cpp 4:5.3.1 :1ubuntu1

1.29.1 Available under license :

```
" Automatically generated by Pod::Man v1.34, Pod::Parser v1.13
"

` Standard preamble:
"

` Subsection heading
.br
.if t .Sp
.ne 5
.PP
```


Vertical space (when we can’t use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \S1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \*(-- will
" give an unbreakable dash, \*(PI will give pi, \*(L” will give a left
" double quote, and \*(R” will give a right double quote. | will give a
" real vertical bar. \*(C+ will give a nicer C++. Capital omega is used to
" do unbreakable dashes and therefore won't be available. \*(C' and \*(C''
" expand to ‘’ in nroff, nothing in troff, for use with C<>.
.tr \(*W-\|\(bv\(Tr
.ds C+ C\^v-.1v\^h'-1p'\v-2+\^h'-1p'+\v0\^v'.1v\^h'-1p'
.ie n {/
 . ds -- \(*W-
 . ds PI pi
 . if (\n.\H=4u)&(1m=24u) .ds -- \(*W\^h'-12u\(^*W\^h'-12u\'-\^v\)" diablo 10 pitch
 . if (\n.\H=4u)&(1m=20u) .ds -- \(*W\^h'-12u\(^*W\^h'-12u'\'-" diablo 12 pitch
 . ds L” "
 . ds R” "
 . ds C” "
 . ds C” "
.br}
.e\{
 . ds -- \$\(em\$
 . ds PI \$p
 . ds L” "
 . ds R” "
.br}
"
" If the F register is turned on, we’ll generate index entries on stderr for
" titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
" entries marked with X<> in POD. Of course, you’ll have to process the
" output yourself in some meaningful fashion.
.if \nF {/
 . de IX
 . tm Index:\$1\dt\n%\t"\$2"
..
 . nr % 0
 . rr F
For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.
.hy 0
.if n .na

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.fudge factors for nroff and troff
.if n \|
 . ds #H 0
 . ds #V .8m
 . ds #F .3m
 . ds #1 \f1
 . ds #] \fP

.simple accents for nroff and troff
.if n \|
 . ds \&
 . ds ` \&
 . ds ^ \&
 . ds , \&
 . ds ~ \&
 . ds / \&

.troff and (daisy-wheel) nroff accents
.if t \|
 . ds \&
 . ds ` \&
 . ds ^ \&
 . ds , \&
 . ds ~ \&
 . ds / \&

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&ls-1WILLs0 \vs-1ANYs0 \vs-1COPYRIGHTs0 \vs-1HOLDERs0 \vs-1ORs0 \vs-1ANYs0 \vs-1OTHERs0 \vs-1PARTYs0 \vs-1WHOs0 \vs-1MAYs0 \vs-1MODIFYs0 \vs-1AND/ORs0
&ls-1REPRESENTS0 \vs-1THE0 \vs-1PERMITTEDs0 \vs-1ABOVEs0 \vs-1BEs0 \vs-1LIABLEs0 \vs-1TOs0 \vs-1YOUs0 \vs-1FORs0 \vs-1DAMAGESs0, \vs-1INCLUDINGs0 \vs-1GENERALs0 \vs-1SPECIALs0 \vs-1INCIDENTALs0 \vs-1CONSEQUENTIALs0 \vs-1 DAMAGESs0, \vs-1OUTs0 \vs-1USEs0 \vs-1INABILITYs0 \vs-1TOs0 \vs-1USEs0 \vs-1THEs0 \vs-1PROGRAMs0 \vs-1INCLUDINGs0 \vs-1BUTs0 \vs-1NOTs0 \vs-1LIMITEDs0 \vs-1TOs0 \vs-1LOSSs0 \vs-1DATAs0 \vs-1ORs0 \vs-1DATAs0 \vs-1BEINGs0 \vs-1RENDEREDs0 \vs-1INACCURATEs0 \vs-1IS0 \vs-1SUSTAINEDs0 \vs-1BYs0
&ls-1YOUs0 \vs-1ORs0 \vs-1PARTIESs0 \vs-1FAILUREs0 \vs-1OFs0 \vs-1THEs0 \vs-1PROGRAMs0 \vs-1TOs0 \vs-1IPOSSIBILITYs0 \vs-1OFs0 \vs-1SUCHs0 \vs-1DAMAGESs0.
.Sh "END OF TERMS AND CONDITIONS"
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file that has been changed a "Modified by Foo Bar" line
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Version 3.1, 31 March 2009

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `.i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE ".byte"
#define ASM_SHORT ".word"
#define ASM_LONG ".long"
#define ASM_QUAD ".quad" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line */
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if define HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 2, June 1991

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" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)

" Standard preamble:
.de Sh " Subsection heading
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.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
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.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \*(-- will
\*(PI will give pi, \*(L" will give a left
\*(R" will give a right double quote. \*(C\+ will
\*(C` and \*(C' expand to `' in nroff,
\*(W- nothing in troff, for use with C\+-.
.tr \(*W-
.ds C+ C\+\-1v\'-1p\'-1u\'-2u\'-1p\'-\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'+\-1p\'
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. ds -- \(*W-
. ds PI pi
.. if \n(H=4u)&(1m=24u) .ds -- \*(W\'-12u\'(*W\'-12u\' \" diablo 10 pitch
.. if \n(H=4u)&(1m=20u) .ds -- \(*W\'-12u\'(*W\'-8u\' \" diablo 12 pitch
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

Accent mark definitions (©(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff
" simple accents for nroff and troff
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I. Item "d."

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@end enumerate

@end enumerate

@end enumerate

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
@end smallexample

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@end smallexample

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

@example
@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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@end c man

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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#!/usr/bin/python
#
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess
class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
        ])

Open Source Used In Ultra Services Platform Version 6.10
1337
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]\([?\[-0-9,\.\s]\s+and\s+]*[0-9]\]

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.-\]

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '\([^Cc\]opryright\)
            |[^Cc\]opryright\(\^[Cc]\)\]
            |\[^Cc\]opryright\%s
            |\[^Cc\]opryright\&copy;:
            |\[^Cc\]opryright\@copyright\{ \}
            |copyright = u"'
            |\[@set\s+copyright\[w-]+\]

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\s*\(\?\: + ranges + '\,\?
            |\[@value\(\([^\[\]]*\))\s+\]')
# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s+name +(\s*\s+?\s*n\s+*)*)?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                   re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+//+@c dnl')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)

    def
if len (string) == 2:
    if year > 70:
        return year + 1900
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set:
                               + after_years)
            return(False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return(False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
    'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
if filename.endswith('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove(pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter(dir, filename)
with open(pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter,
                                               file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search(line):
                self.errors.report(pathname,
                                   'unrecognised copyright: %s'
                                   % line.strip())
                lines.append(line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open(tmp_pathname, 'w') as file:
                for line in lines:
                    file.write(line)
            if self.use_quilt:
                subprocess.call(['quilt', 'add', pathname])
            os.rename(tmp_pathname, pathname)

    def process_tree(self, tree, filter):
        for (dir, subdirs, filenames) in os.walk(tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange(len(subdirs) - 1, -1, -1):
                if filter.skip_dir(dir, subdirs[i]):
del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

          Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '
')
            else:
sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
with open (pathname) as file:
    # Skip files imported from gettext.
    if file.readline().find ('gettext-') >= 0:
        return True

return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
        ])

        self._test_ = self

        self._test__spec__ = self

        self._test__test_has_ = self
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            testsuite',

            # Not really part of the library
            contrib',

            # Imported from upstream
            classpath',
            libltdl',
        ])
def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile (r'\.*NAME_COPYRIGHT\n')
    if filename == 'ICC_Profile.h':
        return re.compile (r'\.*icSigCopyrightTag\n')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile (r'\// (C) Copyright Jeremy Siek\n')
    return GenericFilter.get_line_filter (self, dir, filename)
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
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class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libibm',
'libmudflap',
'libobjc',
'libstdc++-v3', ]

GCCCmdLine().main()
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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

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
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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.

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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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.

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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Accompany the work with the complete corresponding
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@item
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@item
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@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.

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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.

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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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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   {
      namespace javax
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* m4/ax_func_which_gethostbyname_r.m4

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }
}
public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[]{ tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright  " + tags[i].text() + "</i></dt>");
            }
        }
        result.append("</dl>"个百分比);
        return result.toString();
    }
    else {
        return null;
    }
}

/*+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;ConstantValuecopyrightHEADERCopyright:<init>()VCodeLineNumberTableLocalVariableTablethis-Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()ZinConstructorinMethodinOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V*/


/* Permission.java -- The superclass for all permission objects


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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * * <p> The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * * <p> <code>Permission</code>’s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 * /
 * public abstract class Permission implements Guard, Serializable
 {
  /**
   * Compatible with JDK 1.1+.
   */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 */
public interface Permission {

/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 * @param perm The permission to check for equality
 * @return true if the specified permission is the same as this one, false otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this String as a String representing this permission.
 */
String toString();
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#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#ifdef __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}
#endif // __java_security_acl_Permission__

class java::security::acl::Permission : public ::java::lang::Object
{

public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__
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For more information see the README file in the examples directory.

Directory native/fdlimb

fdlimb contains general algorithms useful for runtimes and compilers to support strict double and float mathematical operations.

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The upstream for fdlimb is libgcj (http://gcc.gnu.org/java/), they sync again with the 'real' upstream (http://www.netlib.org/fdlimb/readme).

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David Megginson, sax@megginson.com
1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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#
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# so that they have the form:
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# # update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# # update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'config.shared',
            'config.rtags',
            'configure',
            'config.guess',
            'libtool',
            'make.m4',
        ])

        self.skip_dirs |= set(['
            # Skip auto- and libtool-related directories
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.shared',
            'config.rtags',
            'configure',
            'config.guess',
            'libtool',
            'make.m4',
        ])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if os.path.exists (base + '.def')
and os.path.exists (base + '.tpl')):
    return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9-][^-0-9,.\s][s+and$s+]*[0-9-]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '([Cc]opyright'  # ![Cc]opyright\s+\!(Cc)]\)
            '![Cc]opyright\s+\!(Cc)]'\n            '![Cc]opyright\s+\!'  # ![Cc]opyright\s+\!'
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(:? ' + ranges + ')?\n\[@value\{[^\{]*\}\}\s*)'  

# 3: 'by ', if used
'(by\s+)\n
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\' + name + '('?:\s? + name + ‚)\n
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
  re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ‚, ‚.
self.separator = ‚

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find (’’)
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (’’, index + 1)

def add_external_author (self, holder):
  self.holders[holder] = None
class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)
    else:
        return self.parse_year(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
match = self.comment_re.match(line)
if match:
    line = line[match.end():].lstrip()
return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
             or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set '):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + '' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    try:
        # Update the copyright years.
        years = match.group (2).strip()
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'

line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open (tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write (line)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter ()):  
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))

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sys.stdout.write ('\nDirectories:\n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
            self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):

---
return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['
            # Not part of GCC
            math-68881.h',
        ])

        self.skip_dirs |= set (['
            # Better not create a merge nightmare for the GNAT folks.
            ada',

            # Handled separately.
            testsuite',
        ])

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            .po',

            # Automatically-generated.
            .pot',
        ])

        self.fossilised_files |= set (['
            # Old news won't be updated.
            ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set(['
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
    ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
            ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
# Handled separately.
'testsuite',

# Not really part of the library
'contrib',

# Imported from upstream
'classpath',
'libltdl',
]
)

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([}
# Contains markup around the copyright owner.
'spine.xml',
})

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)
    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author('Free Software Foundation', canon_fsf)
    self.add_package_author('Free Software Foundation.', canon_fsf)
    self.add_package_author('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('The Free Software Foundation', canon_fsf)
    self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('Software Foundation, Inc.', canon_fsf)
    self.add_external_author('ARM')
    self.add_external_author('AdaCore')
    self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author('Cavium Networks.')
    self.add_external_author('Faraday Technology Corp.')
    self.add_external_author('Florida State University')
    self.add_external_author('Greg Colvin and Beman Dawes.')
    self.add_external_author('Hewlett-Packard Company')
    self.add_external_author('Information Technology Industry Council.')
    self.add_external_author('James Theiler, Brian Gough')
    self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author('National Research Council of Canada.')
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    self.add_external_author('Peter Dimov')
    self.add_external_author('Pipeline Associates, Inc.')
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    self.add_external_author('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author('Silicon Graphics')
    self.add_external_author('Stephen L. Moshier')
    self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author('The Go Authors. All rights reserved.')
    self.add_external_author('The Go Authors. ')
    self.add_external_author('The Regents of the University of California')
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class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgfortran',
            'libobjc',
        ]
GCCCmdLine().main()

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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.)

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

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

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

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

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

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

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

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

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

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

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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.)

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#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission : public ::java::lang::Object
                {

                    public:
                    virtual jboolean equals(::java::lang::Object *) = 0;
                    virtual ::java::lang::String * toString() = 0;
                    static ::java::lang::Class toString();
                }
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class toString();
}
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package gnu.classpath.tools.taglets;

import java.util.Map;
** A simple Taglet which handles Copyright information.

```java
import com.sun.javadoc.Tag;

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

```
public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValue
copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
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1552
/* Permission.java -- The superclass for all permission objects


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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>’s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */

    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}
This method returns a `<code>String</code>` representation of this `<code>Permission</code>` object. This is in the format:

`'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'`.

* @return this object as a `<code>String</code>`

```java
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals('')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission
```

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this Permission as a String.
     *
     * @return A String representing this permission.
     */
    String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Ljava/gnu/javax/sound/AudioSecurityManager$Permission;>:InnerClasses4Ljava/gnu/javax/sound/AudioSecurityManager
Permission@1@@@

eAYYYYSYSYS
G'E
1*+E !'
6YK*Y<YM#,)*
*
*+.1/12
35@

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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^L

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That's all there is to it!
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)
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
`\n` Escape single quotes in literal strings from groff's Unicode transform.

```
.ie \n(.g .ds Aq \(aq
.el .ds Aq`
```

`\n` If the F register is turned on, we'll generate index entries on stderr for
`\n` titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
`\n` entries marked with X<> in POD. Of course, you'll have to process the
`\n` output yourself in some meaningful fashion.

```
.ie \nF \`
  . de IX
  . tm Index:\$1	\n%	"\$2"
```

`\n` Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

`\n` Fear. Run. Save yourself. No user-serviceable parts.

```
    " fudge factors for nroff and troff
.if n \`
  . ds #H 0
  . ds #V .8m
  . ds #F .3m
  . ds #[ \&
  . ds #] \&
```

```
.if t \`
  . ds #H ((1u-(\\n(.fu%2u))*1.3m)
  . ds #V .6m
  . ds #F 0
  . ds #[ \&
  . ds #] \&
```

```
  " simple accents for nroff and troff
.if n \`
  . ds ` \&
  . ds ` \&
  . ds ^ \&
  . ds , \&
  . ds ~ ~
IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s' to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "t.space HOST_WIDE_INT_PRINT_UNSIGNED\t\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  fputs (".comm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),

fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#endif
#define ASM_OUTPUT_ALIGNMENT
#define ASM_OUTPUT_ALIGN(FILE,LOG)\
if (((LOG)!=0) fprintf ((FILE), ".align %d
", (LOG))

/* This is how to output an assembler line */
that says to advance the location counter
to a multiple of 2**LOG bytes. */

/* This is how to output an assembler line */
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
sprintf ((BUF), "+%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "+"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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*/

By plainly marking modifications, something along the lines of adding to each
file that has been changed a "Modified by Foo Bar" line
underneath the "Written by" line would be adequate.

1.31 cracklib-runtime 2.9.2 :1ubuntu1
1.31.1 Available under license :

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
_______________________________________________

Open Source Used In Ultra Services Platform Version 6.10

1686
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.

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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

---

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

---

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless 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?
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes, go for it. thanks++

-a

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

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

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

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

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

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

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1HcOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > --------- Forwarded message ---------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license

Open Source Used In Ultra Services Platform Version 6.10
1692
To: alecm@crypto.dircon.co.uk

Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

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

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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it in new free programs; and that you are informed that you can do these things.

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

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

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

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.

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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.)

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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
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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
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.37 dbus 1.10.6 :1ubuntu3.4

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1.42 default-jre-headless 2:1.8 :56ubuntu2

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1.44 dh-python 2.20151103ubuntu1.2
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1.45 diffutils 1:3.3 :3

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Version 3, 29 June 2007

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable. CNRI and the Free Software Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 2.0.

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[buildhtml application]
prune: .
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Author: Jakub Wilk <jwilk@debian.org>
Bug: http://sourceforge.net/p/docutils/bugs/169/
Bug-Debian: http://bugs.debian.org/563696
Forwarded: no
Last-Update: 2011-03-02

--- a/docutils/writers/s5_html/themes/default/iepngfix.htc
+++ b/docutils/writers/s5_html/themes/default/iepngfix.htc
@@ -4,7 +4,7 @@
<script>
  // IE5.5+ PNG Alpha Fix v1.0 by Angus Turnbull http://www.twinhelix.com
  -// Free usage permitted as long as this notice remains intact.
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  // This must be a path to a blank image. That's all the configuration you need here.
  var blankImg = 'ui/default/blank.gif';
--- a/test/functional/expected/ui/default/iepngfix.htc
+++ b/test/functional/expected/ui/default/iepngfix.htc
@@ -4,7 +4,7 @@
<script>
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  // This must be a path to a blank image. That's all the configuration you need here.
  var blankImg = 'ui/default/blank.gif';
--- a/test/functional/expected/ui/small-black/iepngfix.htc
+++ b/test/functional/expected/ui/small-black/iepngfix.htc
@@ -4,7 +4,7 @@
<script>
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Theodore Ts'o
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Theodore Ts'o
23-June-2007

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

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

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

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

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

install-shlibs-strip: install-shlibs

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

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

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

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

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command-line interface parsing library library. It is currently
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This package was put together by Yann Dirson <dirson@debian.org>.
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
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Theodore Ts'o
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<signature of Ty Coon>, 1 April 1989
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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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*/
Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
 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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**

1.51 e2fsprogs 1.42.13-1ubuntu1.1

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

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<signature of Ty Coon>, 1 April 1989
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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*/
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
   -
   - Copyright (C) Andrew Tridgell              2005
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   written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

______________________________________________________________

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<signature of Ty Coon>, 1 April 1989
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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
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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
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul 'Rusty' Russell 2000

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1.52 eject 2.1.5+deb1+cvs20081104-13.1
:13.1ubuntu0.16.04.1
1.52.1 Available under license :

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```
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require 'bundler/setup'
require 'yaml'

# get all local installed gems
def all_installed_gems
  Gem::Specification.all = nil
  all = Gem::Specification
  Gem::Specification.reset
  all
end

all_installed_gems.select {|y| y.gem_dir.include?('vendor') }.sort {|v, u| u.name <=> u.name }.each do |x|
  puts '='*80
  if(x.license) #ah gem has license information
    puts "%s,%s,%s,%s,%s"%[x.name, x.version, x.license, x.homepage, x.email]
  else
    puts "%s,%s,%s,%s,%s"%[x.name, x.version, x.homepage, x.email]
    license_file = Dir.glob(File.join(x.gem_dir,'LICENSE*')).first #see if there is a license file
    if(license_file)
      file = File.open(license_file, 'r')
      data = file.read
      file.close
      puts data
    else
      #no license file.. try to print some gem information
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1.61 gcc 4:5.3.1 :1ubuntu1
1.61.1 Available under license :
   " Automatically generated by Pod::Man v1.34, Pod::Parser v1.13
   "
   " Standard preamble:
   "
   "=======================================================================
   .de Sh \ Subsection heading
   .br
   .if t .Sp
   .ne 5
   .PP
   \FB\SV\fR
   .PP
   ..
   .de Sp \ Vertical space (when we can't use .PP)
   .if t .sp .5v
   .if n .sp
   ..
   .de Vb \ Begin verbatim text
   .ft CW
Set up some character translations and predefined strings. \*-- will give an unbreakable dash, \*PI will give pi, \*L will give a left double quote, and \*R will give a right double quote. | will give a real vertical bar. \*(C will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C and \*(C expand to ’’ in nroff, nothing in troff, for use with C<>.

```
\(UTC\h'-12u'\h'-12u'-" diablo 10 pitch  
if \n(.H=4u)&(1m=20u) \(UTC\h'-12u'\h'-12u'-" diablo 12 pitch  
 \(UTC\h' "  
 \(UTC' "  
 \(UTC' "  
'b\r\}  
�  
 \(UTC\h'-12u'\  
 \(UTC' "  
 \(UTC' "  
'b\r\}

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

```
if \nF  
  de IX  
  tm Index:\$1\t\n%\t\\$2  
  nr % 0  
  rr F  
\}
```

For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.

```
.hy 0  
.if n .na
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff

troff and (daisy-wheel) nroff accents

corrections for vroff

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

That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by

# the Free Software Foundation; either version 3, or (at your option) # any later version.

# This script adjusts the copyright notices at the top of source files # so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or # that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in # libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite, # while most tests in other directories are just things that failed at some # point in the past.
#
# Pass --this-year to the script if you want it to add the current year # to all applicable notices. Pass --quilt if you are using quilt and # want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the # output has been vetted. You can instead pass the names of individual # directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update # all copyright notices (and possibly at other times to check whether # new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before # this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        pass
if filename:
    string = filename + ': ' + string
sys.stderr.write (string + 'n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ("
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
            )
# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
]

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9,.\s]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\\w\-\w\-

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            # 1: 'Copyright (C)', etc.
            '((C)(c)opyright' +
            '[(Cc)opyrights+|(Cc)]' +
            '((Cc)opyrights+%' +
            '[(Cc)opyrights+&copy;' +
            '[(Cc)opyrights+@copyright{}' +
            'copyright = u"' +
            '[@set+copyright[\w-]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*\(?:' + ranges + '\?,?' +
        '@value\{[^{}]*\})\s*')

        # 3: 'by ', if used
        '(by\s+)?'

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).

(' + name + '(?<!s? + name + )*)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                 re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = {'@copying': '@copying '}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ' ', '.'.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year)
               for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != '':
        self.errors.report(pathname,
                           'trailing characters in @set: ' + after_years)
        return(False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + '' + continuation
        next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return(False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname,
                           'unrecognised copyright holder: ' + holder)
        return(False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                    file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (
                        ['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % filename)
% os.path.join (dir, filename))

else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add"" files before changing them",
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice",
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)
def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] == '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            chosen_dir = self.chosen_dirs[0]
            for (dir, filter) in self.dirs:
                if dir.startswith(chosen_dir):
                    self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file(self, dir, filename)
class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_extensions |= set(['.po', '.pot'])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_dirs |= set(['soft-fp'])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_dirs |= set(['testsuite', 'contrib', 'classpath', 'libltdl'])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
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self.add_external_author('Regents of the University of California.')
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self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.')
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
    TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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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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For an executable, the required form of the "work that uses the
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its purpose remains meaningful.

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

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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Version 2.1, February 1999

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#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;

public:
    static ::java::lang::Class class$;


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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglet;

import com.sun.sun这辈子.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

  private static final String NAME = "copyright";
  private static final String HEADER = "Copyright:";

  public String getName() {
    return NAME;
  }
}
public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            return null;
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

if+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
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java/util/Map+.put&(Ljava/lang/Object;Ljava/lang/Object;):Ljava/lang/Object;
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g506*([Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;com/sun/javadoc/Tag
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BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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7806)+=>+29<=+_BYDN-EGW67+29<%-KYMO+29RURWG+-YGW-[F"adefge+k/l7m>nDoSpunstw\}]^_
/* Permission.java -- The superclass for all permission objects

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exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
The actual meaning of the name of the permission is defined only in the context of a subclass. It may name a resource to which access permissions are granted (for example, the name of a file) or it might represent something else entirely. Similarly, the action list only has meaning within the context of a subclass. Some permission names may have no actions associated with them. That is, you either have the permission or you don't.

The most important method in this class is `implies()`. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

`Permission`'s must be immutable - do not change their state after creation.

- @author Aaron M. Renn (arenn@urbanophile.com)
- @see Permissions
- @see PermissionCollection
- @since 1.1
- @status updated to 1.4

```java
public abstract class Permission implements Guard, Serializable {

    /*
     * Compatible with JDK 1.1+
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /*
     * This is the name assigned to this permission object.
     */
    private String name;

    /*
     * Create an instance with the specified name.
     */
    public Permission(String name) {
        this.name = name;
    }
```
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 * @return true if perm is implied by this
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');

    return string.toString();
}
if (!getActions().equals(""))
{
    string = string.append(");
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same as the class
 * java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return true if the specified permission is the same as this one, false otherwise
 *
 * boolean equals (Object perm);
 */

 /**
 * This method returns this Permission as a String.
 *
 * @return A String representing this permission.
 *
 * String toString();
 */

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* m4/ax_func_which_gethostbyname_r.m4

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1[java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJConstantValue?(WQ–nameLjava/lang/String;<init>(Ljava/lang/String;)VCode()V	LineNumberTableLocalVariableTablethisLjava/security/Permission;checkGuard(Ljava/lang/Object;)VobjLjava/lang/Object;smLjava/lang/
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
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That’s all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@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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\tr \(*W-
\ds C+ C\v'-1v'h'-1p's-2+p's-0v'.1v'h'-1p'
\ie n \{|  
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  if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u'\*W\h'-12u'\*W\h'-12u'\*W\h'-12u' \diablo 10 pitch
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\v' Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \aqaq
\el .ds Aq '
\} 

\v' If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.
\ie \nF \{|  
  \de IX 
  \tm Index:\$1\tn\n%\"\$2"
" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear. Run. Save yourself. No user-serviceable parts.
" fudge factors for nroff and troff
.if n {
 . ds #H 0
 . ds #V .8m
 . ds #F .3m
 . ds ![ \f1
 . ds ] \fP
.if t {
 . ds #H ((1u-(\\n(.fu%2u))*.13m)
 . ds #V .6m
 . ds #F 0
 . ds ![ \&
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 . ds . \k:\h'-(\n(.wu*8/10)'\h'\n:u'
 . ds ~ \k:\h'-(\n(.wu*10/(H-.1m)'\h'\n:u'
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) 
    fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\"u\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
    ( fputs (".comm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
    ( fputs (".lcomm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
    ( fputs (".lcomm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG)\ 
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))
/* This is how to store into the string BUF  
the symbol_ref name of an internal numbered label where  
PREFIX is the class of label and NUM is the number within the class.  
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
      sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM OUTPUT SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM OUTPUT SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".comm ", (FILE)), \
      assemble_name ((FILE), (NAME)), \
      fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line  
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".lcomm ", (FILE)), \ 
      assemble_name ((FILE), (NAME)), \ 
      fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \ 
    ( fputs (".lcomm ", (FILE)), \ 
      assemble_name ((FILE), (NAME)), \ 
      fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
   that says to advance the location counter 
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	  
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d
", (LOG))

/* This is how to store into the string BUF 
   the symbol_ref name of an internal numbered label where 
   PREFIX is the class of label and NUM is the number within the class. 
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \ 
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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

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
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff
IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"

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

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

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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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.

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.

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
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next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
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Convey the object code using peer-to-peer transmission, provided you
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IP "17. Interpretation of Sections 15 and 16." 4

IX Item "17. Interpretation of Sections 15 and 16."

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example

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

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Jansen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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#!/usr/bin/python
#
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#
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1
def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'lt options.m4',
            'lsugar.m4',
            'ltversion.m4',
            'lt obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
        '])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
        # Skip files produced by autogen
        if os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
    return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]\[s+\d+\])*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(  
            # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright'  
            '[\[Cc\]opyright\s+\{\[Cc\]\}]'  
            '\[[Cc]\]opyright\s+%s'  
            '\[[Cc]\]opyright\s+©'  
            '\[[Cc]\]opyright\s+@copyright{ }'  
            'copyright = u"'  
            '@set\s+copyright\[\w.-\]'  
            '(\s*(?:' + ranges + ',?  
            '|@value\{[^{}]*\})\s*)'  
            '(by\s+)?'  
            '([^\s\d]+)(?:\s+([\w.,-\d]+))\s*)')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*\(?!\s+)?\s*\)\s*'?  
        '@value\{[^{}]*\})\s*')

        # 3: 'by ', if used
        '(by\s+)?'

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '(' + name + '(?\:\s' + name + ')\*\)')

        # A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s).  Could be ',', '
self.separator = ','

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            else:
                raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
assert len(year_list) > 0
return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
after_years = line[match.end(2):].strip()
if after_years != "":
    self.errors.report(pathname,
               'trailing characters in @set: ' + after_years)
    return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None
    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)
    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname,
               'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ') +
        canon_form + self.separator +
        line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s
                                % line.strip())
            lines.append (line)

        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
        if self.use_quilt:
            subprocess.call (["quilt", 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s

            % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', """quilt add" files before changing them",
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    'Options:\n' % sys.argv[0])
    format = '%-15s %s
' for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s' i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
for arg in sys.argv[1:]:
    if arg[1] != '-':
        self.chosen_dirs.append (arg)
    elif arg in self.option_handlers:
        self.option_handlers[arg] (arg)
    else:
        self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
            self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_files |= set([
    # Not part of GCC
    'math-68881.h',
])

self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

class LibGCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Imported from GLIBC.
        'soft-fp',
    ])

class LibJavaFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Handled separately.
        'testsuite',

        # Not really part of the library
        'contrib',

        # Imported from upstream
        'classpath',
        'libltdl',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Handled separately.
        'testsuite',
    ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsfi = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsfi)
        self.add_package_author('Free Software Foundation.', canon_fsfi)
        self.add_package_author('Free Software Foundation Inc.', canon_fsfi)
        self.add_package_author('Free Software Foundation, Inc', canon_fsfi)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsfi)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnatools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                    'libada',
                    'libatomic',
                    'libbacktrace',
                    'libcpp',
                    'libdecnumber',
                    'libgcc',
                    'libgfortran',
                    'libgomp',
                    'libitm',
                    'libmudflap',
                    'libobjc',
                    'libstdc++-v3',
                    ]

GCCCmdLine().main()
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Version 3.1.31 March 2009

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define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu javax sound AudioSecurityManager$Permission__
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {

        }
    }
}
return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + " </i></dt>"");
            }
        }
        result.append("</dl>");
        return result.toString();
    } else {
        return null;
    }
}
}
SourceFileCopyrightTaglet.java!

/*1-
7.,;?,G.K.O!,S"#QYSL*+%+WWXY-.
/01A
*2Y+S4\n
7806+=>+29<=+%KYMO+29RURWGW+-YGW-{F`adefge+k/l7m>nDoSpunstw>\}^_`a7TbcA>`ade
/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     */
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>.
 */
@return this object as a <code>String</code>
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * @param perm The permission to check for equality
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
  static const jlong serialVersionUID = -5636570222231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
  static ::java::lang::Class class$;
};
#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
  namespace security
  {
    namespace acl
    {
      class Permission;
    }
  }
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
  public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
    } __attribute__ ((__attribute__(__attribute__((java_interface))));
#endif // __java_security_acl.Permission__
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#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess
class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ':' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9][?,-0-9,\.\s]\$+\$+[0-9]\$+

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '((Cc)opyright\|--)' +
            '((Cc)opyright\$s+(\[Cc\])\$)' +
            '((Cc)opyright\$s+%s)' +
            '((Cc)opyright\$s+&copy;)' +
            '[@copyright{ }]' +
            'copyright = u\"' +
            '@set\$s+copyright[\w-]+)' +

            # 2: the years.  Include the whitespace in the year, so that
            # we can remove any excess.
            '(\$s+(?:: + ranges + ,)?' +
            '@value\{|[\^ ]\}|s*\)'}
# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s+name +(?:\s?\s+name +\s+)*')?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*\[0-9\][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', .
self.separator = ','

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year
    def parse_year (self, string):
        year = int (string)
if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
        for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end()::].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder and (holder not in self.holder_prefixes
                     and not holder.startswith('@'))
------------------------------
def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname, 'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn’t look like a proper continuation,
                # assume that what we’ve got is complete.
                continuation = self.strip_continuation(next_line)
                if not self.continuation_re.match(continuation):
                    break

                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + ' ' + continuation
                next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match

            holder = match.group(4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author(dir, filename):
                assert holder not in self.holders
            elif not holder:
                self.errors.report(pathname, 'missing copyright holder')
                return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ') + canon_form + self.separator + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
if filename.endswith ('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove (pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

        # Check for copyright lines that might have slipped by.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        if i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', "'quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))

        sys.stdout.write ('Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
        pathname = os.path.join (dir, filename)
with open (pathname) as file:
    # Skip files imported from gettext.
    if file.readline().find ('gettext-') >= 0:
        return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
        ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',
        ])  

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])  

        self.skip_dirs |= set(['
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])  

        self.own_files |= set(['
            # Contains markup around the copyright owner.
            'spine.xml',
        ])  

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile('//(C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter(self, dir, filename)
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

    canon_fsfs = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsfs)
    self.add_package_author ('Free Software Foundation.', canon_fsfs)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsfs)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsfs)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsfs)
    self.add_package_author ('The Free Software Foundation', canon_fsfs)
    self.add_package_author ('The Free Software Foundation, Inc', canon_fsfs)
    self.add_package_author ('Software Foundation, Inc', canon_fsfs)

    self.add_package_author ('ARM')
    self.add_package_author ('AdaCore')
    self.add_package_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_package_author ('Cavium Networks.')
    self.add_package_author ('Faraday Technology Corp.')
    self.add_package_author ('Florida State University')
    self.add_package_author ('Greg Colvin and Beman Dawes.')
    self.add_package_author ('Hewlett-Packard Company')
    self.add_package_author ('Information Technology Industry Council.')
    self.add_package_author ('James Theiler, Brian Gough')
    self.add_package_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_package_author ('National Research Council of Canada.')
    self.add_package_author ('Peter Dimov and Multi Media Ltd.')
    self.add_package_author ('Peter Dimov')
    self.add_package_author ('Pipeline Associates, Inc.')
    self.add_package_author ('Regents of the University of California.')
    self.add_package_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_package_author ('Silicon Graphics')
    self.add_package_author ('Stephen L. Moshier')
    self.add_package_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_package_author ('The Go Authors. All rights reserved.')
    self.add_package_author ('The Go Authors.')
    self.add_package_author ('The Regents of the University of California.')
    self.add_package_author ('Unicode, Inc.')
    self.add_package_author ('University of Toronto')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecmumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecmumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()
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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 not give you as much freedom as 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.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called `this License`). Each licensee is addressed as `you`.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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
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You must give prominent notice with each copy of the work that the
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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:

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.)

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
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Accompany the work with a written offer, valid for at
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@item
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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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   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.)

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return null;
        }

        if (tags.length == 1) {
            return tags[0].toString();
        }

        StringBuilder sb = new StringBuilder();
        for (Tag t : tags) {
            sb.append(t.toString()).append(" ");
        }

        return sb.toString();
    }
}
return null;
}
else {
   boolean haveValidTag = false;
   for (int i = 0; i < tags.length &amp;&amp; !haveValidTag; ++i) {
      if (tags[i].text().length() &gt; 0) {
         haveValidTag = true;
      }
   }
   if (haveValidTag) {
      StringBuffer result = new StringBuffer();
      result.append("&lt;dl&gt;\n");
      for (int i = 0; i &lt; tags.length; i++) {
         if (tags[i].text().length() &gt; 0) {
            result.append("&lt;dt&gt;i&gt;Copyright &amp;#169; + tags[i].text() + &quot;&lt;/dt&gt;&quot;);
         }
      }
      result.append("&lt;/dl&gt;\n");
      return result.toString();
   } else {
      return null;
   }
}
SourceFileCopyrightTaglet.java!

/\*1-
7.;=:<C.G.K.O!;S"#QYSL*+%+'WWXY-.
/01A
*2Y+S4\n
7806)+=>+29<=+_.BYDN-EGW67+29<-%#KYMO+29RURGW+-YGW-{F'adefge+k/l7m>nDoSpunstw>\}^_ `a7TbcA'>ade
/\* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *<p>@see Permissions
 *<p>@see PermissionCollection
 *<p>@since 1.1
 *<p>@status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
public Permission(String name)
{
    this.name = name;
}
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);
/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);
/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
* @return a hash value
* /
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ' ' + getActions + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is *not* the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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*m4/ax_func_which_gethostbyname_r.m4

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1 java/security/Permission
1 java/lang/Object
1 java/security/Guard
1 io/Serializables
serialVersionUID

ConstantValue

public final class SourceFilePermission extends Permission implements Serializable

public SourceFilePermission(String sourceFile, String action)

java/security/acl/Permission

java/lang/Object

equals

ToString

Lgnu/java/lang/CPStringBuilder;

append

BCD

getClass

_fh

getActions

SourceFilePermission.java

GNU

Signature

gnu/java/lang/Enum

Lgnu/javax/sound/AudioSecurityManager$Permission;

InnerClasses

$gnu/javax/sound/AudioSecurityManager

Permission

 oldu@@@

eAYYYYYSYSYSYSYS

G'E
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission;
            }
        }
    }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);
    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
    public:
    static ::java::lang::Class class$;
};

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

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

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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
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than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
 setback filename gpl
 @settitle GNU General Public License
 @c man begin SEEALSO
 gfdl(7), fsf-funding(7).
 @c man end
 @c man begin COPYRIGHT
 Copyright @copyright{} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@end man

@end node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
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Free Documentation License''.
@end example

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with...Texts.'' line with this:

@example
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end example

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

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

Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
Standard preamble:
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\V{B}{S1}\V{R}
.PP
.. 
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \S1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \((-- will
" give an unbreakable dash, \((PI will give pi, \((L" will give a left
" double quote, and \((R" will give a right double quote. \((C+ will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won't be available. \((C' and \((C expand to ` in nroff,
" nothing in troff, for use with C<<.
.tr \((W-
.ds C+ C\v'-1v\h'-1p'\s-2+\h'-1p'\s0\v'.1v\h'-1p'
.ie n \{
  .ds -- \((W-
  .ds PI pi
  .if \(n(H=4u)&(1m=24u) .ds -- \((W\h'-12u\(W\h'-12u\(W\h'-8u' \" diablo 10 pitch
  .if \(n(H=4u)&(1m=20u) .ds -- \((W\h'-12u\(W\h'-12u\(W\h'-8u' \" diablo 12 pitch
  .ds L" "
  .ds R" "
  .ds C" "
  .ds C' "
.br\}
.ie \{
  .ds -- \(em\]
  .ds PI \(p
  .ds L" "
  .ds R" "
.br\}
" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(g .ds Aq \{aq
If the F register is turned on, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff
IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
 лечения: For troff, turn off justification. Always turn off hyphenation; it makes
 лечения: way too many mistakes in technical documents.
 .if n .ad 1
 .nh
 .SH "NAME"
gpl \- GNU General Public License
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 .IX Header "DESCRIPTION"
 .Sh ">=1GNU<=0 General Public License"
 .IX Subsection "GNU General Public License"
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RE

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PP

Vb 2

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```
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```

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.`s to identify labels that should be ignored, as in `i386/gas.h` --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
(fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#endif
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), \t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), \*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX \_\_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying
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@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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

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

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

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.

@ifnum \thechapter > 0
\appendix
\section{Terms and Conditions for Copying, Distribution and Modification}
@end ifnum

@ifinfo
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\centerline{TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION}
@end ifinfo

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

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

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

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

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

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

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

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

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

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

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

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

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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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DAMAGES.
@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample
Also add information on how to contact you by electronic and paper mail.

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

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

That's all there is to it!

#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',
        ])

        self.skip_dirs |= set([
            # Skip directories.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',
        ])
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt.options.m4',
'lt.sugar.m4',
'lt.version.m4',
'lt~.obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
# Skip .in files produced by automake.
if os.path.exists (base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?\(\{-0-9,\s\}\s+and\s+\)*[0-9]]'

        # Non-whitespace characters in a copyright holder's name.
        name = '^[\w-\s]*$'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((\[Cc\]opyright'  
       '[(Cc]\)opyright%s+'  
       '[(Cc]\)opyright+%s'  
       '[(Cc]\)opyright\&copy;'  
       '[(Cc]\)opyright@copyright]'  
       'copyright = u'  
       '@set%s+copyright[\w-]+)'  
    # 2: the years. Include the whitespace in the year, so that  
    # we can remove any excess.
    '(s*(?:' + ranges + ',?  
       '@value\{[^\}]*\})s+)')  
    # 3: 'by ', if used
    '(by\s+)?'  
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(' + name + '(?:\s?' + name + ')*)?')  

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*(0-9)' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                        re.IGNORECASE)  
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()  

# True to 'quilt add' files before changing them.
self.use_quilt = False  

# If set, force all notices to include this year.
self.max_year = None  

# Goes after the year(s). Could be ', '.
self.separator = ' '  

def add_package_author (self, holder, canon_form = None):  
    if not canon_form:  
        canon_form = holder  
    self.holders[holder] = canon_form  
    index = holder.find (')')  
    while index >= 0:  
        ...
self.holder_prefixes.add (holder[:index])
index = holder.find (', ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set: '):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                            'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
             + canon_form
             + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

---
# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C')
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))

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def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
    
    %s

    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:

    %s

    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                    + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            ['math-68881.h',
             ])
        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            ['ada',
             ])
        self.skip_extensions |= set (
            # Maintained by the translation project.
            ['.po',
             ])
        self.fossilised_files |= set (
            # Old news won't be updated.
            ['.pot',
             ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            ['.c',
             '.c',
             '.C',
             '.cc',
             '.h',
             '.hs',
             '.f',
             '.f90',
             '.go',
             '.inc',
             '.java',
            ]
        )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            ['.po',
             
            # Automatically-generated.
            ',po',
            ,pot',
        ]
    

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Imported from GLIBC.
            'soft-fp',
        )
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',
        )
# Contains imported images
'image',
})

self.own_files |= set(
    # Contains markup around the copyright owner.
    'spine.xml',
    )

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn’t really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir (os.path.join ('libstdc++-v3', LibStdCxxFilter()))
        self.add_dir (os.path.join ('libstdc++-v3', 'lto-plugin'))
        self.add_dir (os.path.join ('libstdc++-v3', 'lto-plugin'))
        # zlib is imported from upstream.

        self.default_dirs = [  


GCCCmdLine().main()
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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 Cridilig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@cs.ucdavis.edu) 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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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }
}
public boolean isInlineTag() {
    return false;
}

public static void register(Map<
    Map<
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 */
* or you don't.
*
* <p>The most important method in this class is `implies()` . This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* <p>`Permission`'s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
* /
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the `Guard` interface for this class.
 * It calls the `checkPermission()` method in
 * `SecurityManager` with this `Permission` as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}
/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * 
 * @return the action list for this <code>Permission</code>
 * /
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * 
 * @return a new <code>PermissionCollection</code>
 * /
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * 
 * @return this object as a <code>String</code>
 * /
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
}
string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 */
* @version 0.0
*
* @author Aaron M. Renn (arenn@urbanophile.com)
*/

public interface Permission
{
 /**
  * This method tests whether or not a specified <code>Permission</code>
  * (passed as an <code>Object</code>) is the same as this permission.
  *
  * @param perm The permission to check for equality
  *
  * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
  */
  boolean equals (Object perm);

  /**
  * This method returns this <code>Permission</code> as a <code>String</code>.
  *
  * @return A <code>String</code> representing this permission.
  */
  String toString();
}

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David Megginson, david@megginson.com
2000-05-05

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define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
  namespace security
   {
    namespace acl
     {
      class Permission;
     }
   }
 }
}

class java::security::acl::Permission : public ::java::lang::Object
{

 public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
}
static ::java::lang::Class class$;
} __attribute__((java_interface));

#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*.-

#ifdef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{

class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:

static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:

static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
    static ::java::lang::Class class$;
};

#Endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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Version 2.1, February 1999

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/* Definitions for BSD assembler syntax for Intel 386 (actually AT&T syntax for insns and operands, adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo.ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE) 
  fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"un\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (".comm \t", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))
#endif

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (".lcomm \t", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE, LOG) 
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where...
PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 2.1, February 1999

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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler labels.  If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn’t be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdefined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line

that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\    
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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@c man end

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.

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# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['COPYING',])
'COPYING.LIB',
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'decomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltutil.m4',
'ltversion.m4',
'lt--obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appenix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
if filename in self.skip_files:
    return True

(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True

        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include . for typos.
        ranges = '[0-9](?:[-0-9.,\s]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
name = '\[\w.,-\]'

# Matches one year.
self.year_re = re.compile ('\[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
    '((C)opyright'  
    '[' + name + ']' + name + ')'  
    '[' + name + '%s'  
    '[' + name + '&copy:'  
    '[' + name + '@copyright{'}  
    '[copyright = u\''  
    '[@sets+copyright[\w-]+]'  
    # 2: the years. Include the whitespace in the year, so that  
    # we can remove any excess.  
    '\s*(' + ranges + ',', '?'  
    '[@value\{[^\}]\}]*\s*)'  
    # 3: 'by ', if used  
    '(by\s+)'  
    # 4: the copyright holder. Don't allow multiple consecutive  
    # spaces, so that right-margin gloss doesn't get caught  
    # (e.g. gnat_ugn.texi).  
    '\(' + name + '\s*' + name + ')\s*I)')

# A regexp for notices that might have slipped by. Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.'
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('\n')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find ('\n', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
(min_year, max_year) = self.year_range (years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)

    # assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
               + ('' if intro.startswith ('copyright = ') else ' ')
               + canon_form + self.separator
               + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endsWith ('right'):
        intro += ' (C)'
    elif intro.endsWith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endsWith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.getLineFilter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.updateCopyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

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def add_option(self, name, help, handler):
    self.option_help.append((name, help))
    self.option_handlers[name] = handler

def add_dir(self, dir, filter = GenericFilter):
    self.dirs.append((dir, filter))

def o_help(self, option = None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...\n
    Options:\n    %s\n
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('Directories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '\n')
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )
        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )
        self.skip_extensions |= set (
            # Maintained by the translation project.
        )
'.po',

# Automatically-generated.
'.pot',
])

self.fossilised_files |= set (]
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ]

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ]

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class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Imported from GLIBC.
            'soft-fp',
        ]

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ]

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Handled separately.
            'testsuite',
        ]

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set [
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ]

self.skip_dirs |= set([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)
        self.add_package_author('ARM')
        self.add_package_author('AdaCore')
        self.add_package_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_package_author('Cavium Networks.')
        self.add_package_author('Faraday Technology Corp.')
        self.add_package_author('Florida State University')
        self.add_package_author('Greg Colvin and Beman Dawes.')
        self.add_package_author('Hewlett-Packard Company')
        self.add_package_author('Information Technology Industry Council')
        self.add_package_author('James Theiler, Brian Gough')
        self.add_package_author('Makoto Matsumoto and Takuji Nishimura')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecmumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')

# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcpp',
                     'libdecrenumber',
                     'libgcc',
                     'libgfortran',
                     'libgomp',
                     'libitm',
                     'libmudflap',
                     'libobjc',
                     'libstdc++-v3',
                     ]

GCCCmdLine().main()

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<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
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<meta name="keywords" content="ISO C++, runtime, library" />
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<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
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<tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td>
<th width="60%" align="center">Chapter1.Status</th>
<td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td>
</tr>
</table>
<hr/></div>
<div class="section">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div>
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Version 3.1, 31 March 2009

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{

class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
}
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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* m4/ax_func_which_gethostname_r.m4

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }
public boolean inMethod() {
return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 */
The most important method in this class is `implies()`. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

Permission's must be immutable - do not change their state after creation.

@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

```java
public abstract class Permission implements Guard, Serializable {
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the Guard interface for this class.
     * It calls the checkPermission method in SecurityManager with this Permission as its argument. This method
     * returns silently if the security check succeeds or throws an exception if it fails.
     *
     * @param obj the Object being guarded - ignored by this class
     */
    @Override
    public void checkPermission(Object obj) {
        // Implementation
    }
```
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName() {
    return name;
}
* This method returns the list of actions for this `<code>Permission</code>` as a `<code>String</code>`. The string should be in canonical order, for example, both `<code>new FilePermission(f, "write,read")</code>` and `<code>new FilePermission(f, "read,write")</code>` have the action list "read,write".

* @return the action list for this `<code>Permission</code>`

```java
public abstract String getActions();
```

/**
 * This method returns an empty `<code>PermissionCollection</code>` object that can store permissions of this type, or `<code>null</code>` if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate `<code>implies</code>`.

* @return a new `<code>PermissionCollection</code>`

```java
public PermissionCollection newPermissionCollection()
{
    return null;
}
```

/**
 * This method returns a `<code>String</code>` representation of this `<code>Permission</code>` object. This is in the format: `<code>'' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')</code>`.

* @return this object as a `<code>String</code>`

```java
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
```
return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted.  Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * *
 * @version 0.0
 */
*/
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);

}
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
  static const jlong serialVersionUID = -5636570222231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
  static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
  namespace java
  {
    namespace security
    {
      namespace acl
      {
        class Permission : public ::java::lang::Object
        {
          public:
            virtual jboolean equals(::java::lang::Object *) = 0;
            virtual ::java::lang::String * toString() = 0;
            static ::java::lang::Class class$;
          } __attribute__ ((java_interface));
        }
      }
    }
  }
}
#ifdef __java_security_acl_Permission__

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1.67 gettext-base 0.19.7 :2ubuntu3.1
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This is the Debian prepackaged version of the GNU gettext utilities.
GNU gettext was written by Ulrich Drepper <drepper@gnu.org>.
emacs po-mode was written by Francois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>,
and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:

http://ftp.gnu.org/pub/gnu/gettext/gettext-0.19.7.tar.xz

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

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From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabfd99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
/*

#include <grub/symbol.h>
+#include <grub/dl.h>

..file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

/*

From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

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The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabfd99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text

/*
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 Version 3, 29 June 2007

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From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabfd99 100644
Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

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Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

--- grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */
 
 #include <grub/symbol.h>
+#include <grub/dl.h>

 .file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
 .text

/*
From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
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Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S  | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaaf4..eabfd99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */
 
 #include <grub/symbol.h>
+#include <grub/dl.h>

 .file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
 .text
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Version 3, 29 June 2007

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From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

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The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabf699 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>

.file "setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
 .text

/*
From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
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Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebc12ad5

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
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Version 3, 29 June 2007

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From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
Origin: upstream,
http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

3787
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabfd99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

/*
 From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001
 From: dann frazier <dann.frazier@canonical.com>
 Date: Thu, 21 May 2015 10:28:48 -0600
 Subject: arm64/setjmp: Add missing license macro

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 immediately exit with an "incompatible license" error.

 The source file includes a GPLv3+ boilerplate, so fix this by declaring a
 GPLv3+ license using the GRUB_MOD_LICENSE macro.

 Signed-off-by: dann frazier <dann.frazier@canonical.com>
 Bug-Ubuntu: https://bugs.launchpad.net/bugs/1459871
 Origin: upstream,
 http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35

 Patch-Name: arm64-setjmp-Add-missing-license-macro.patch
 *--
 grub-core/lib/arm64/setjmp.S | 2 ++
 1 file changed, 2 insertions(+)

 diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe4..eabfd99 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"

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Version 3, 29 June 2007

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1.83 init-system-helpers 1.29ubuntu4

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl/pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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This package contains the scripts that are executed at start and
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This package is built from the `sysvinit' source package. Please
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1.89 installation-report 2.60ubuntu1

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1.91 iproute2 4.3.0 :1ubuntu3.16.04.5

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1.94 iputils-ping 3:20121221 :5ubuntu2

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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
This package was debianized by Andrew Pollock <apollock@debian.org> on
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It was downloaded from http://ftp.isc.org/isc/dhcp/

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
This package was debianized by Andrew Pollock <apollock@debian.org> on
Sun, 02 Mar 2008 21:18:00 -0800.

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package org.apache.ivy.core.module.descriptor;

public class License {
    private String name;

    private String url;

    public License(String name, String url) {
        this.name = name;
        this.url = url;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}

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0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
# # PC Screen (console) Fonts - psf2 header
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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.

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1.106 keyboard-configuration

1.108 ubuntu15.5

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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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
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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproblog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-/' and we don't want to change them.
    if line != '' and line != '-
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'(\^ * (\^ *)*(- *)?\^/) lines[ln])
    if m:
if m.group(1) != fname:
    warn(fname, ln, 'Wrong filename in comment')
ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
            ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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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
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lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if indicates_license(line):
            is_license = True
            continue
        if code_seen and not nonlicense_seen and not text_seen:
            warn(fname, ln, 'Comment after code')
        text_seen = True

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
if not is_license and indicates_license(line):
    is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/**-' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* (.*)/\*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/*.*?/\*/', '', line)
        line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())

        is_license = check_comment(comment, fname, comment_starts_at,
code_seen, nonlicense_seen
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != "":
code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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<script type="text/javascript">
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    VERSION: '1.13.2',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true
};
</script>
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src/lib/gssapi,"n".gssapi</span></tt>, including the following files:

* <tt class="docutils literal">g_accept_sec_context.c</tt>
* <tt class="docutils literal">g_acquire_cred.c</tt>
* <tt class="docutils literal">g_canon_name.c</tt>
* <tt class="docutils literal">g_compare_name.c</tt>
<span class="n">lib</span>/gssapi/class/mechglue/class/g_context_time.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_delete_sec_context.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_dsp_name.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_dsp_status.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_dup_name.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_exp_sec_context.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_export_name.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_glue.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_imp_name.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_imp_sec_context.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_init_sec_context.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_initialize.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_process_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:

- <tt class="docutils literal"><span class="pre">lib/gssapi/generic/gssapi_err_generic</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_accept_sec_context</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_acquire_cred</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_canon_name</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_compare_name</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_context_time</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_delete_sec_context</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dup_name</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_exp_sec_context</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_export_name</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_glue</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_imp_name</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_imp_sec_context</span></tt>
class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_initialize</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_context</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_cred</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_names</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_process_context</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_buffer</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_cred</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_name</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_oid_set</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_seal</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_sign</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_store_cred</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unseal</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_userok</span><span class="o">.</span><span class="n">c</span>  

class="o"/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_utils</span><span class="o">.</span><span class="n">c"�
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
include
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
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   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
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
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   slave/kpropd_rpc.c
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lib/krb5/kadm5/kadm_host_srv_names.c
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```
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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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_dup_name.c
lib/gssapi/mechglue/g_dup_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

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c  
lib/kdb/kdb_log.c  
lib/kdb/kdb_log.h  
lib/krb5/error_tables/kdb5_err.et  
slave/kpropd_rpc.c  
slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
src/lib/gssapi, including the following files:

- src/lib/gssapi/gssapi_err_generic.c
- src/lib/gssapi/g_accept_sec_context.c
- src/lib/gssapi/g_acquire_cred.c
- src/lib/gssapi/g_canon_name.c
- src/lib/gssapi/g_compare_name.c
- src/lib/gssapi/g_context_time.c
- src/lib/gssapi/g_delete_sec_context.c
- src/lib/gssapi/g_dsp_name.c
- src/lib/gssapi/g_dsp_status.c
- src/lib/gssapi/g_dup_name.c
- src/lib/gssapi/g_export_name.c
- src/lib/gssapi/g_exp_secd_context.c
- src/lib/gssapi/g_exp_sec_context.c
- src/lib/gssapi/g_glue.c
- src/lib/gssapi/g_imp_name.c
- src/lib/gssapi/g_postvote.c
- src/lib/gssapi/g_negvote.c
- src/lib/gssapi/g_init.c
- src/lib/gssapi/g_init_glue.c
- src/lib/gssapi/g_init_src.c
- src/lib/gssapi/g_init_ap.c
- src/lib/gssapi/g_init_sfc.c
- src/lib/gssapi/g_init_spnego.c
class="n">g_imp_sec_context</span><span class="o">.</span><span class="n">c</span>  

<lib class="o">/</lib> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_init_sec_context class="o">/</g_init_sec_context> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_context class="o">/</g_inquire_context> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_cred class="o">/</g_inquire_cred> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_names class="o">/</g_inquire_names> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_process_context class="o">/</g_process_context> 

<lib class="o">/</lib> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inititalize class="o">/</g_inititalize> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_context class="o">/</g_inquire_context> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_cred class="o">/</g_inquire_cred> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_names class="o">/</g_inquire_names> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_process_context class="o">/</g_process_context> 

<lib class="o">/</lib> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_initialize class="o">/</g_initialize> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_context class="o">/</g_inquire_context> <gssapi class="o">/</gssapi> <mechglue class="o">/</mechglue> <g_inquire_cred class="o">/</g_inquire_cred> 

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi` , including the following files:

.. parsed-literal::

```

```
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)
def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^\s]*\) (\s */.*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]
        if not in_comment:
            line = re.sub(r'(\s*\*/)', '', line)
            line = line.strip()
        if not in_comment and '/\*' in line:
            (line, sep, comment_part) = line.partition('/\*')
def check_file(lines, fname):
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
    elif in_comment and "*/" not in line:
        comment.append(line.lstrip("*/").lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition("*/")
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
        code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
        ln += 1
    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()
        check_file(lines, fname)

1.110 language-selector-common 0.165.4

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From d8278f51ecb3c736d697fa367faf99457210a7d8 Mon Sep 17 00:00:00 2001
From: intrigeri <intrigeri@boun.org>
Date: Sun, 6 Nov 2016 10:48:34 +0100
Subject: [PATCH] dnsmasq: allow libvirt_leaseshelper "m" permission on itself.

Without this, on current Debian unstable, libvirt_leaseshelper crashes when dnsmasq starts it.

Origin: upstream, https://gitlab.com/apparmor/apparmor/commit/d8278f51ecb3c736d697fa367faf99457210a7d8
Bug-Ubuntu: https://launchpad.net/bugs/1830802
---
profiles/apparmor.d/usr.sbin.dnsmasq | 2 ++
1 file changed, 2 insertions(+)

diff --git a/profiles/apparmor.d/usr.sbin.dnsmasq b/profiles/apparmor.d/usr.sbin.dnsmasq
index a83fa94bf200..a53bf4e4cd97 100644
--- a/profiles/apparmor.d/usr.sbin.dnsmasq
+++ b/profiles/apparmor.d/usr.sbin.dnsmasq
@@ -92,6 +92,8 @@
 /etc/libnl-3/classid r,
 
+ /usr/lib{,64}/libvirt/libvirt_leaseshelper m,
+
   owner @ [PROC]/@ [pid]/net/psched r,
   owner @ [PROC]/@ [pid]/status r,

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2.7.4
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Upstream-Contact: apparmor@lists.ubuntu.com
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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_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.119 libaprutil1 1.5.4 :1build1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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The debian package maintenance was handed over to Andreas Henrikson <andreas@fatal.se> in February 2010.
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#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
```
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
        ])

        # Skip files for which we're not a copyright
        # owner.
        self.own_files -= set([
            'Makefile',
            'doxygen',
            'yacc',
            'lex',
            'configure',
            'configure.ac',
            'README',
            'COPYING3-LIB',
            'COPYING-LIB',
            'COPYING3',
            'COPYING.LIB',
            'COPYING',
            'LICENSE',
        ])

        self.own_files -= set(
            os.listdir('.')
        )

        if not self.own_files:
            self.fossilised_files = self.skip_files

        self.fossilised_files -= self.own_files

        self.own_files -= self.fossilised_files

        # Merge the skip files into the fossilized files.
        self.fossilised_files |= self.skip_files

        # Now consider the immediate child directories:
        for d in os.listdir('.'): 
            if os.path.isdir(d):
                self.skip_dirs.add(d)

                if d != 'include':
                    # Skip the directory if the user tells us to.
                    if not self.skip_dirs.
                        self.fossilised_files.add(os.path.join(d))

                d = os.listdir(d)

                if os.path.exists('.include'):
                    # If a .include file is present, then it is
taken to mean that the entire directory should

                    # be considered a fossil.

                    self.fossilised_files.add(os.path.join(d, '.include'))

                    self.fossilised_files.add(os.path.join(d))

                else:
                    # Otherwise, we only fossilize the directory
                    # if it is found to be empty.

                    if len(d) == 0:
                        self.fossilised_files.add(os.path.join(d))

        # Remove the fossilized files from the list of own files.
        # (Note that we skip directories.)
        self.own_files -= set(
            self.fossilised_files
        )
`fdl-1.3.xml`,
`gpl-3.0.xml`,

# Skip auto- and libtool-related files
`aclocal.m4`,
`compile`,
`config.guess`,
`config.sub`,
`depcomp`,
`install-sh`,
`libtool.m4`,
`ltmain.sh`,
`ltoptions.m4`,
`ltsugar.m4`,
`ltversion.m4`,
`lt--obsolete.m4`,
`missing`,
`mkdep`,
`mkinstalldirs`,
`move-if-change`,
`shlibpath.m4`,
`symlink-tree`,
`ylwrap`,

# Skip FSF mission statement, etc.
`gnu.texi`,
`funding.texi`,
`appendix_free.xml`,

# Skip imported texinfo files.
`texinfo.tex`,
)

```python
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'^')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
```


if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?[-0-9,.\s]\s+and\s+]*[0-9-]\]

        # Non-whitespace characters in a copyright holder's name.
        name = '\[w\-\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.

self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '(\[Cc\]opyright'  
    '\[Cc\]opyrights+\([Cc]\)'  
    '\[Cc\]opyrights+%s'  
    '\[Cc\]opyrights+&copy;'  
    '\[Cc\]opyrights+@copyright{ }'  
    'copyright = u\"'  
    '@set\s+copyright\[w-\+]'

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '(\s*\(?\.' + ranges + ',.\?'  
    '[@value\{[^{}]*\}]\s*')

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '([^\s]+(\s?' + name + '(?:\s?' + name + ')*)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*\[0-9\]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*\[0-9\][0-9]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c |dnl ')  

self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
index = holder.find (' ')  
while index >= 0:  
    self.holder_prefixes.add (holder[:index])  
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):  
    self.holders[holder] = None

class BadYear():  
    def __init__ (self, year):  
        self.year = year

    def __str__ (self):  
        return 'unrecognised year: ' + self.year

def parse_year (self, string):  
    year = int (string)  
    if len (string) == 2:  
        if year > 70:  
            return year + 1900  
        elif len (string) == 4:  
            return year  
    raise self.BadYear (string)

def year_range (self, years):  
    year_list = [self.parse_year (year)  
                 for year in self.year_re.findall (years)]  
    assert len (year_list) > 0  
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):  
    self.use_quilt = use_quilt

def include_year (self, year):  
    assert not self.max_year  
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):  
    # Leave texinfo variables alone.  
    if years.startswith ('@value'):  
        return years  
    (min_year, max_year) = self.year_range (years)  

    # Update the upper bound, if enabled.  
    if self.max_year and not filter.is_fossilised_file (dir, filename):  
        max_year = max (max_year, self.max_year)
# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break

        # Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s' % line.strip())
                        lines.append(line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True

            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
            {})

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            {})

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.',

            # Automatically-generated.
            '.',
            {})
self.fossilised_files |= set({
    # Old news won't be updated.
    'ONEWS',
})

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_extensions |= set({
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    })

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_extensions |= set({
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    })

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_dirs |= set({
        # Imported from GLIBC.
    })
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',
        ])

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])
# The testsuite data files shouldn't be changed.
#'data',

# Contains imported images
#'images',
)

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'),
                      TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
'gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()

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  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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@item
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@page
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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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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{

class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
}
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
}

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-   

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__((java_interface));

#endif // __java_security_acl_Permission__

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {
    
    /**
     * 
     * public class CopyrightTaglet implements Taglet {
private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
}

open
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
/* Permission.java -- The superclass for all permission objects

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cpy

package java.security;

import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *<p>@see Permissions
 *<p>@see PermissionCollection
 *<p>@since 1.1
 *<p>@status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable {

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *<p>@serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *<p>@param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
* @return true if the object equals
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It must satisfy the contract of <code>Object.hashCode</code>: it must be the same for all objects that equals considers to be the same.
*
* @return a hash value
*
public abstract int hashCode();

/**
 * Get the name of this Permission.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this Permission.
 * as a String. The string should be in canonical order, for
 * example, both new FilePermission(f, "write,read") and
 * new FilePermission(f, "read,write") have the action list
 * "read,write".
 * @return the action list for this Permission
 */
public abstract String getActions();

/**
 * This method returns an empty PermissionCollection object
 * that can store permissions of this type, or null if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * implies.
 * @return a new PermissionCollection
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this
 * Permission object. This is in the format:
 * (" + getClass().getName() + "+" + getName() + "+" + getActions
 * + ")
 * @return this object as a String
 */
public String toString()
CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals('"'")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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   eAYYYYYSYSYS
   G'E
   I"+E !"
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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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 distribution of the work is made by offering access to copy
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That's all there is to it!
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 (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 Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader.
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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@enumerate 0
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@enumerate a
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```

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@end group
@end example

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replace the ``with...Texts.” line with this:

@example
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end example

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situation.

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free software license, such as the GNU General Public License,
to permit their use in free software.

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

c man end

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
" Standard preamble:
" ==============================================================
.de Sh " Subsection heading
.br
Set up some character translations and predefined strings. \*-- will give an unbreakable dash, \*PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C" and \*(C' expand to " in nroff, nothing in troff, for use with C<>.

```
.tr \(*W- 
.ds C+ C\v'-1v\h'\v'-1p\v'-2+\h'-1p'+\s0\v'\v'\h'-1p'
.ie n \{
 . ds -- \(*W-
 . ds PI pi
 . if \((H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u'\v'-1p'+\s0\v'\v'\h'-1p'
 . if \((H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-12u'\v'-1p'+\s0\v'\v'\h'-1p'
 .br\}
.el\{
 . ds -- \}\{em\}
 . ds PI \(*p
 . ds L" "
 . ds C" "
 . ds C' "
 .br\}
```

Escape single quotes in literal strings from groff's Unicode transform.

```
.ie \n(.g .ds Aq \{aq
 .el .ds Aq '\
```

"
If the F register is turned on, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.

```
.ie \nF {\n.de IX
.tm Index:\$1\&m%\t"\$2"
...
 nr % 0
 rr F
}
.el {\n.de IX
...
}
```

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

```
if n {\n .ds #H 0
 .ds #V .8m
 .ds #F .3m
 .ds #[ \f1
 .ds #] \fP
}
if t {\n .ds #H ((1u-(\n(.fu%2u))*.13m)
 .ds #V .6m
 .ds #F 0
 .ds #[ \&
 .ds #] \&
}
```

```
if n {\n .ds ' \&
 .ds ` \&
 .ds ^ \&
 .ds , \&
 .ds ~ ~
 .ds /
 .}
```

```
 if t {\n .ds `\k:\h'-(\n(.wu*8/10)*(\#H))\h"|\n:u"
 .ds `\k:\h'-(\n(.wu*8/10)*(\#H))\h"|\n:u'
 .ds ^ \k:\h'-(\n(.wu*10/11)*(\#H))\h"|\n:u'
 .ds , \k:\h'-(\n(.wu*8/10)^\h"|\n:u'
 .ds ~ \k:\h'-(\n(.wu-\^\&(#H-1m)^~\h"|\n:u'
```
. ds / \k:\h'-(\n(.wu*8/10\*(#H)\*z\*sf\h\]*ln\:u'
|)
.
V' troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n(.wu*8/10\*(#H+.1m+\*(#F)'\*v'-\*(#V\*z\:h'.2m+\*(#F,'h\]*ln\:u'\*v'(#V'
.ds 8 h'\*v'(#H'\*hh'\*v'(#H'
.ds o \k:\h'-(\n(.wu+\w'\(de'\u'-'v'\(de\v'.3n'\h'\]*ln\:u'\(V'
.ds d- \h'\(pd\h'-'w'-'v'\(hy\fP'\v'-.25m\h'\(F'\(V'
.ds D- D:\k:\h'-'w'D'u'\(v'-.11m\v'\(hy'v'.11m\h'\]*ln\:u'
.ds th v'(#F'.3m's+1Ps-1V'-.3m'h'-'w'Tu*2/3\(s-1o's+1v'(#F'
.ds Th v'(#F\s+2Ps-2hl'-'w'Tu*3/5\v'-.3m'o'w'.3m'v'(#F'
.ds ae a'h'-(w'a'u*4/10)'e
.ds Ae A'h'-(w'A'u*4/10)'E
.
V' corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10\*(#H)'s-2u-'d's+2h'\]*ln\:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11\*(#H)'v'-.4m'\v'-.4m'h'\]*ln\:u'
.
V' for low resolution devices (crt and lpr)
.if \n.(H>23 .if \n.(V>19 
\v
   .ds : e
   .ds 8 ss
   .ds o a
   .ds d- d'h'-'(ga
   .ds D- D'h'-'(hy
   .ds th o'bp'
   .ds Th o'LP'
   .ds ae ae
   .ds Ae AE
   .)
   .rm #[ #] #H #V #F C
\v
" ========================================================================
\v" IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
.V For rroff, turn off justification. Always turn off hyphenation; it makes
.V' way too many mistakes in technical documents.
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  .IX Header "DESCRIPTION"
  .Sh "ls-1GNUs0 General Public License"
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underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
define ASM_SHORT "\t.word\t"
define ASM_LONG "\t.long\t"
define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
        fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
        ( fputs ("\t.comm \", (FILE)),
          assemble_name ((FILE), (NAME)),
          fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
        ( fputs ("\t.lcomm \", (FILE)),
          assemble_name ((FILE), (NAME)),
          fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol with alignment. */
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
        ( fputs ("\t.lcomm \", (FILE)),
          assemble_name ((FILE), (NAME)),
          fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\!
if ((LOG)!=0) fprintf ((FILE), "\t.align %ld", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\!
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1.31 March 2009

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if necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
import os
import re
import sys
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s\+\&\s]*[0-9])

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w\.-\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|\s*' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'  
    '[Cc]opyright\s+[Cc])'  
    '[Cc]opyright\s+%s'  
    '[Cc]opyright\s+&copy;'  
    '[Cc]opyright\s+\@[copyright{}]'  
    'copyright = u\''  
    '@set\s+copyright\[w-]+')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(?:' + ranges + ',?  
' @value\{[^{}]*\})\s*)'  

# 3: 'by ', if used
'(by\s+)\?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s*' + name + '\s*' + name + ')\?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', ','
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
canon_form = holder
self.holders[holder] = canon_form
index = holder.find ('')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find ('', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    else:
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break

                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation (next_line)
                if not self.continuation_re.match (continuation):
                    break
# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package 
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else '')
        + canon_form + self.separator
        + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.error_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        )
                return

    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.error_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        )
                return

    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
% line.strip()
lines.append (line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
    for line in lines:
        file.write (line)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    'Options:\n  %s\n' % sys.argv[0]
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
                return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])

---
class TestsuiteFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.fossilised_files |= set(
            # Old news won't be updated.
            'ONEWS',
        )

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(
            # Maintained by the translation project.
            '.po',
        )

        self.skip_extensions |= set(
            # Automatically-generated.
            '.pot',
        )

class LibGCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_dirs |= set([
    # Imported from GLIBC.
    'soft-fp',
    ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Handled separately.
            'testsuite',

            # Contains automatically-generated sources.
            ])  

    def get_line_filter(self, dir, filename):
        return re.compile('.*NAME_COPYRIGHT')
        if filename == 'NameDecoder.h':
            return re.compile('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile('.*icSigCopyrightTag')

        return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            ])  

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(["intro.xml",])
        self.skip_dirs |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            ])

'html',

# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
})

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)
    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author('Free Software Foundation', canon_fsf)
    self.add_package_author('Free Software Foundation.', canon_fsf)
    self.add_package_author('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author('The Free Software Foundation', canon_fsf)
    self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('Software Foundation, Inc.', canon_fsf)
    self.add_external_author('ARM')
    self.add_external_author('AdaCore')
    self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author('Cavium Networks.')
    self.add_external_author('Faraday Technology Corp.')
    self.add_external_author('Florida State University')
    self.add_external_author('Greg Colvin and Beman Dawes.')
    self.add_external_author('Hewlett-Packard Company')
    self.add_external_author('Information Technology Industry Council.')
    self.add_external_author('James Theiler, Brian Gough')
    self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author('National Research Council of Canada.')
    self.add_external_author('Peter Dimov and Multi Media Ltd.')
    self.add_external_author('Peter Dimov')
    self.add_external_author('Pipeline Associates, Inc.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.
self.default_dirs = ['gcc',
                   'libada',
                   'libatomic',
                   'libbacktrace',
                   'libc++',
                   'libdecnumber',
                   'libgcc',
                   'libgfortran',
                   'libgomp',
                   'libitm',
                   'libmudflap',
                   'libobjc',
                   'libstdc++-v3',
                  ]

GCCMdLine().main()

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security

class java::security::Permission : public ::java::lang::Object
{

public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
static ::java::lang::Class class$;
};

/* DO NOT EDIT THIS FILE - it is machine generated */

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
    class PermissionCollection;
}
}
}
}
class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}
public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>\n            for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright &amp;#169; " + tags[i].text() + "</i></dt>\n            }
            result.append("</dl>\n            return result.toString();
        }
    return null;
    }
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *@see Permissions
 *@see PermissionCollection
 *@since 1.1
 *@status updated to 1.4
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* *
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* *
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
* *
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
* *
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * 
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');  // Add a space after the class name
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');  // Add a space before the actions
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>. *
 * @version 0.0 *
 * @author Aaron M. Renn (arenn@urbanophile.com) *
 */
public interface Permission {
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
    boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostname_r.m4

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```
void checkGuard(JNIEnv env, jobject this)
{
    // Check the security manager
    SecurityManager sm = (SecurityManager) env;
    if (sm != null)
        sm.checkPermission((Permission) this);
}
```

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5075
16/gnu/java/sound/AudioSecurityManager$Permission

Java version 1.0

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5076
AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
static ::java::lang::Class class$;

};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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That's all there is to it!
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
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man begin COPYRIGHT
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@c man end
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\"
\" Standard preamble:
\"=======================================================================
.de Sh \" Subsection heading
.br
.if t .Sp
.ne 5
.PP
\B\$1\fR
.PP
.. 
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
\" Set up some character translations and predefined strings. \"(\-- will\" give an unbreakable dash, \"(PI will give pi, \"(L' will give a left\" double quote, and \"(R" will give a right double quote. \"(C+ will\" give a nicer C++. Capital omega is used to do unbreakable dashes and\" therefore won't be available. \"(C` and \"(C' expand to ` in nroff,\" nothing in troff, for use with C\".\n.tr \(*W-
.ds C+ C\v\-1\v'1\v'1p\'\v\-1p\'\v\-2p\'\v\-1p\'\v'1p\'\v\-0p\'1v\'1p\'\v\-1p\'\v'1p\'\v\-1p'
.ie n \{\n . ds -- (\*W-
 . ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u\)(*W\h'-12u\'-\h'-12u\'-\) diablo 10 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . br}
 .el {
 . ifn (.g .ds Aq (aq
 .el       .ds Aq '
 ." Escape single quotes in literal strings from groff's Unicode transform.
 .ie \n(.g .ds Aq (aq
 .el .ds Aq '.
 ."
 ." If the F register is turned on, we'll generate index entries on stderr for
 ." titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
 ." entries marked with X<> in POD. Of course, you'll have to process the
 ." output yourself in some meaningful fashion.
 .ie \nF \{
 . de IX
 . tm Index:\$1\t\n%	"\$2"
 ..
 . nr % 0
 . rr F
 .}
 .el \{
 . de IX
 ..
 .
 .}
 ."
 ." Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
 ."
 . " fudge factors for nroff and troff
 .if n \{
 . ds #H 0
 . ds #V .8m
 . ds #F .3m
 . ds #[ \f1
 . ds #] \fP
 .}
 .if t \{
 . ds #H ((1u-\n\n(.fu%2u))*.13m)
 . ds #V .6m
 . ds #F 0
" simple accents for nroff and troff
.if n \%
  .ds ‘ \&
  .ds ‘ \&
  .ds ^ \&
  .ds , \&
  .ds ~ ~
  .ds / \&

.if t \%
  .ds ‘ \k:\h’-(\n(.wu*8/10-%(#H)‘\h’\n:u”
  .ds ‘ \k:\h’-(\n(.wu*8/10-%(#H)‘\h’\n:u’
  .ds ^ \k:\h’-(\n(.wu*10/11-%(#H)^‘\h’\n:u’
  .ds , \k:\h’-(\n(.wu*8/10)‘\h’\n:u’
  .ds ~ \k:\h’-(\n(.wu*10-%(#H)-~\h’\n:u’
  .ds / \k:\h’-(\n(.wu*8/10-%(#H)|\h’\n:u’

" troff and (daisy-wheel) nroff accents
.ds : \k:\h’-(\n(.wu*8/10-%(#H+.1m+%%(#F)‘\v’-%%(#V‘\z.\h’.2m+%%(#V‘
.ds 8 \h’-%%(#H’%b\v’-%%(#H'
.ds o \k:\h’-(\n(.wu+w‘%(#H)/2u‘\v’-3n%%(#l\n(.wu*3.n’\h’\n:u’%(#]
.ds d- \h’%%(#H%(pd\h’-‘u’‘v’-25.m’(hy\mP‘w’.25.m’\h’-%%(#H'
.ds D- D’h’-w’D’u‘v’-11.m’(hy‘v’.11.m’\h’\n:u’
.ds th ‘%(#l’3.m’s+1Ps-1V’-3.m’h’-(wTu*2/3)’s-1o’s+1%(#]
.ds Th ‘%(#l’s+2Ps-2h’-w’Tu*3/5W’-3.m’oW’3.m%%(#]
.ds ae al’h’-(w/a’u*4/10)e
.ds Ae A’h’-(w’A’u*4/10)E

" corrections for vroff
.if v .ds ~ \k:\h’-(\n(.wu*9/10-%(#H)‘\v’-2u-\v’\n:u’
.if v .ds ^ \k:\h’-(\n(.wu*10/11-%(#H)‘\v’-4n’\v’‘m’\h’\n:u’

" for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \"

/.rm ![ #] #H #V #F C
"=" "===================================================================

5118
""
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
""
For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.SH "\s-1GNU\s0 General Public License"
.SH "Version 3, 29 June 2007"
.Vb 1
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See also `gfdl(7)`, `funding(7)`.

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix "."s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte"t"
#define ASM_SHORT "t.word"t"
#define ASM_LONG "t.long"t"
#define ASM_QUAD "t.quad"t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
fprintf (FILE, "t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), "t.align %d
", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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1.126 libasm4-java 5.0.4-1

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto
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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto
AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/hcrypto/test_dh.c

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1.128 libasprintf0v5:amd64 0.19.7 :2ubuntu3.1

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This is the Debian prepackaged version of the GNU gettext utilities.
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emacs po-mode was written by Francois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>,
and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:

http://ftp.gnu.org/pub/gnu/gettext/gettext-0.19.7.tar.xz

The changes were fairly minimal, and consisted solely of adding
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   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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Appendix: How to Apply These Terms to Your New Programs

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"
;
    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
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* 
* <p><code>Permission</code>’s must be immutable - do not change their 
* state after creation.
* 
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{
/**
* Compatible with JDK 1.1+
*/

private static final long serialVersionUID = -563657022231596674L;

/**
* This is the name assigned to this permission object.
* 
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
* 
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
* 
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is the same as the class
 * java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
* This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.

* @param perm The permission to check for equality

* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise

*/

boolean equals (Object perm);

/**
* This method returns this <code>Permission</code> as a <code>String</code>.

* @return A <code>String</code> representing this permission.
*/

String toString();

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```java
java/security/acl/Permission

SourceFilePermission.java
16/gnu/javax/sound/AudioSecurityManager$Permission

SourceFileAudioSecurityManager.java

Signature

G'E
1*+E !'
6YK*Y<YM#,)*
*
*+.012
35@

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
 namespace gnu
```
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
public:
static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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That's all there is to it!
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 Cridlég (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlesfs(detlesfs@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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end

\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\"  
\" Standard preamble:
\" ========================================================================
.de Sh \" Subsection heading
.br
.if t .Sp
.ne 5
.PP
\fB\$1\fR
.PP
..
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve \" End verbatim text
.ft R
.fi
.
.. " Set up some character translations and predefined strings. \"(-- will
.. \" give an unbreakable dash, \"(PI will give pi, \"(L" will give a left
.. \" double quote, and \"(R" will give a right double quote. \"(C+ will
.. \" give a nicer C++. Capital omega is used to do unbreakable dashes and
.. \" therefore won’t be available. \"(C’ and \"(C’ expand to ‘’ in nroff,
.. \" nothing in troff, for use with C<>.
.tr \l(*W-.
.ds C+ Cl\v\-1v\h\-1p\s-2+\h\-1p\+\sx0v\1v\h\-1p'
.ie n \{
 . ds -- \l(*W-
 . ds PI pi
 . if (\n(\H=4u) &(1m=24u) . ds -- \l(*W\h\-12u\l(*W\h\-12u\l(\" diablo 10 pitch
 . if (\n(\H=4u) &(1m=20u) . ds -- \l(*W\h\-12u\l(*W\h\-8u\l(\" diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C’ "
'br\}
.ef \{
 . ds -- \l(\em]\}
 . ds PI \l(\p
 . ds L" "
 . ds R" "
'br\}
.. " Escape single quotes in literal strings from groff’s Unicode transform.
.ie \n(g .ds Aq \l(aq
 .el .ds Aq '
.. " If the F register is turned on, we’ll generate index entries on stderr for
.. \" titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
.. \" entries marked with X<> in POD. Of course, you’ll have to process the
.. \" output yourself in some meaningful fashion.
.ie \nF \{
 . de IX
 . tm Index:\$1\t\n%\"\$2"
.. nr % 0
 . rr F
.. \}
 .el \{
 . de IX
.. \}
.. " Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
Fear. Run. Save yourself. No user-serviceable parts.

\`fudge factors for nroff and troff
.if n \{
  .ds \#H 0
  .ds \#V .8m
  .ds \#F .3m
  .ds \[ \&
  .ds ] \&
\}

\` simple accents for nroff and troff
.if n \{
  .ds ` \&
  .ds ^ \&
  .ds , \&
  .ds ~ ~
  .ds /
\}

\` troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n.wu*8/10-\*(#H)\h'\n.u
.ds \(\k:h'-(\n.wu*8/10-\*(#H)\h'\n.u'
.ds ^ \(\k:h'-(\n.wu*10/11-\*(#H)\v'\n.u'
.ds , \(\k:h'-(\n.wu*8/10)\h'\n.u'
.ds ~ \(\k:h'-(\n.wu*-1*#H-1)\v'\n.u'
.ds / \k:h'-(\n.wu*8/10-\*(#H)\v'\n.u'
\}

\` corrections for vroff
.if v .ds ~ \k:h'-(\n.wu*9/10-\*(#H)\h'\n.u'
.if v .ds \(\k:h'-(\n.wu*10/11-\*(#H)\v'\n.u'
\}

\` for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \

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.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */
/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix "."s to identify labels that should be ignored, as in `.i386/gas.h` --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) /*

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
  fprintf (FILE, "%d.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (”.comm “, (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), “,%u\n”, (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (”.lcomm “, (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), “,%u\n”, (int)(ROUNDED)))

#define HAVE_GAS_LCOMM_WITH_ALIGNMENT
/* This is how to output an assembler line
   that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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Version 3.1.31 March 2009

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Version 3.1, 31 March 2009

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@end iftex
@end ifinfo
@end page
@end appendixsubsec

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#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltversion.m4',
            'lt~obsolete.m4',
            ...])
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
])


def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
return True

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ' ' for typos.
        ranges = '[0-9]([-0-9.,\s]+and[\s]+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright\n            \[[Cc]\]opyrights+\[Cc\]\n            \[[Cc]\]opyright\s+%s'  # 2: the years. Include the whitespace in the year, so that
            '\s*\(\s*\)' + ranges + '.?\s*\)'
def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                        re.IGNORECASE)
    self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')
    self.holders = { '@copying': '@copying' }
    self.holder_prefixes = set()
year = int (string)
if len (string) == 2:
    if year > 70:
        return year + 1900
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
and (holder not in self.holder_prefixes
        or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
def process_file(self, dir, filename, filter):

    return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname,
            'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)

    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)

        # Make sure the author is given in a consistent way.
        line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

        # Remove any 'by'
        line = line[:match.start (3)] + line[match.end (3):]

        # Update the copyright years.
        years = match.group (2).strip()
        try:
            canon_form = self.canonicalise_years (dir, filename, filter, years)
        except self.BadYear as e:
            self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

        line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

        # Use the standard (C) form.
        if intro.endswith ('right'):
            intro += ' (C)'
        elif intro.endswith ('(c)'):
            intro = intro[:-3] + '(C)'
        line = line[:match.start (1)] + intro + line[match.end (1):]

        # Strip trailing whitespace
        line = line.rstrip() + '

        return (line != orig_line, line, next_line)
pathname = os.path.join (dir, filename)
if filename.endswith ('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove (pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                if self.use_quilt:
                    subprocess.call (["quilt", 'add', tmp_pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
  del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
  if filter.skip_file (dir, filename):
    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
  else:
    self.process_file (dir, filename, filter)

class CmdLine:
  def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                    self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

  def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

  def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

  def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
      sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
      i += 1
      if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + 'n')
else:
    sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] !='-
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                        + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
pathname = os.path.join (dir, filename)
with open (pathname) as file:
    # Skip files imported from gettext.
    if file.readline().find ('gettext-') >= 0:
        return True
return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([(
            # Not part of GCC
            'math-68881.h',
        )])

        self.skip_dirs |= set ([(
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )])

        self.skip_extensions |= set ([(
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )])

        self.fossilised_files |= set ([(
            # Old news won't be updated.
            'ONEWS',
        )])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([(
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
        )]}
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
        ])

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def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_dirs |= set(['testsuite',
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set(['intro.xml',
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
        self.skip_dirs |= set(['html',
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])
        self.own_files |= set(['spine.xml',
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsfs = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsfs)
        self.add_package_author ('Free Software Foundation.', canon_fsfs)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsfs)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsfs)
        self.add_package_author ('The Free Software Foundation', canon_fsfs)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsfs)
        self.add_package_author ('Software Foundation, Inc.', canon_fsfs)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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Version 2, June 1991

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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:

1. 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.)

2. 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.

3. Accompany the work with a written offer, valid for at
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@item
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@enumerate a
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@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
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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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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.

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

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

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

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

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

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

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

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

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

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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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};
#ifndef __java_security_Permission__
#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ *. *
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
    __attribute__((java_interface));
#ifndef __java_security_acl_Permission__
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 *  A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return "";
        }

        StringBuilder sb = new StringBuilder();
        for (Tag tag : tags) {
            sb.append(HEADER).append(tag.getName()).append(" ");
        }

        return sb.toString();
    }
}
return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }

    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
            }
        }
        result.append("</dl>");
        return result.toString();
    } else {
        return null;
    }
}
SourceFileCopyrightTaglet.java!

/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *<p>@see Permissions
 *<p>@see PermissionCollection
 *<p>@since 1.1
 *<p>@status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable {
{
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 */
@return a hash value

public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"\" + getClass().getName() + ",\" + getName() + ",\" + getActions
 * + ",\"</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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1998-05-11

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*m4/ax_func_which_gethostbyname_r.m4

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```java
checkGuard(Ljava/lang/Object;)V
! java/lang/System#getSecurityManager()Ljava/lang/SecurityManager;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)V
objLjava/lang/Object;smLjava/lang/SecurityManager;implies(Ljava/security/Permission;)Z
equals(Ljava/lang/Object;)Z
hashCode()I
getName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString();gnu/java/lang/CPStringBuilder

1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
SourceFilePermission.java!
F
**+[]^
```

XM,*$nop
q ++
^.-/012345*/6578,95S:YL+(=L+*AEIL+=L+*LIL+*=L+*MIL+=L+*U*+
"+7>GNSKWXYZ
1java/security/Permissionjava/lang/Objectequals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
SourceFilePermission.java
16-gnu/javasound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javasound/AudioSecurityManager$Permission
;RECORDALLENUM$VALUES2[Lnunu/javasound/AudioSecurityManager$Permission;<clinit
>)V
`<init>(Ljava/lang/String;)V
LineNumberTableLocalVariableTable
thisvalues40[Lnunu/javasound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/javasound/AudioSecurityManager$Permission;
,-)5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lnunu/javasound/AudioSecurityManager$Permission;>:InnerClasses4Sgnu/javasound/AudioSecurityManager
Permission@1@@@`

eAYYYYYSYSYS
G'E
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

    public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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

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6. As an exception to the Sections above, you may also 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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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
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That's all there is to it!
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 Advanced Research Projects Agency.

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and
Doug Detlef (detlef@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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\" Standard preamble:
\" ========================================================================
Set up some character translations and predefined strings. \^(-- will give an unbreakable dash, \^PI will give pi, \^L will give a left double quote, and \^R will give a right double quote. \^C will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \^C and \^C expand to ` in nroff, nothing in troff, for use with C<<.

\tr /(*W-
\ds C+/\v'-.1\v'1\h'-.1p'\v'-.2+\h'-.1p'+\v'0\v'-.1\v'1\h'-.1p'
\ie n \{\n  .ds -- /(*W-
  .ds PI pi
  .\if /((\n(\H=4u)&(1m=24u) .ds -- /(*W\h'-.12u/(\W\h'-.12u\v'-\a'\h'-.12u\v')
  .\if /((\n(\H=4u)&(1m=20u) .ds -- /(*W\h'-.12u/(\W\h'-.8u\v'-\a')
  .ds L'' ''
  .ds R'' ''
  .ds C'' ''
  .ds C'' ''
  \br\}
\el\}
\" Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(g .ds Aq \\a]
If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

```
.ie \nF \\n.de IX
.tm Index:\$1\v\n%\"\$2"
.. nr % 0
.. rr F
\}
.ie \nF \\n.de IX
.. \}
```

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff
```
.if n \n\n.de #H 0
.de #V .8m
.de #F .3m
.de #[ \f1
.de #] \fP
\}
.if t \n\n.de #H ((1u-(\\n(.fu%2u))*.13m)
.de #V .6m
.de #F 0
.de #[ \&
.de #] \&
\}
```

simple accents for nroff and troff
```
.if n \n\n.de \&
.de ` \&
.de ^ \&
.de , \&
.de ~ ~
.de /
\}
.if t \n\n.de \k:\h'-(\n(.wu*8/10-\*(#H)\v\n:u"
.de \k:\h'-(\n(.wu*8/10-\*(#H)\v\n:u'
.de ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v\n:u'
```
Open Source Used In Ultra Services Platform Version 6.10

" corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)/s-2\u-\d\s+2\h'\h'|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)'v'-.4m'v'-4m'\h'|\n:u'
.V for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \n\{\n   .ds : e
   .ds 8 ss
   .ds o a
   .ds d- d'\h'-'\(ga
   .ds D- D'\h'-'\(hy
   .ds th \o'bp'
   .ds Th \o'LP'
   .ds ae ae
   .ds Ae AE
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.rm #[ #] #H #V #F C
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"IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
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SEE ALSO

`gfdl`(7), `sf-funding`(7).

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
    fprintf (FILE, \".space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (\".comm\", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), \",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (\".lcomm\", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), \",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
    ( fputs (\".lcomm\", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), \",%u\n", (int)(ROUNDED)))
#endif
fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\
if ((LOG)!=0) fprintf ((FILE), 	.align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
sprintf ((BUF), 
*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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work are being offered to the general public at no charge under
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A separable portion of the object code, whose source code is excluded from
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Version 3.1, 31 March 2009

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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For an executable, the required form of the "work that uses the
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Initialize empty image

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Create new DOS partition table

Create 1st primary partition

Create 2nd primary partition

Create 2st primary partition

Create 1st primary partition

Create 2nd primary partition

Create 1st primary partition
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

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

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):
Initialize empty image
f1c9645dbc4efdc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2c9 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
ada64ace122978d00d101c0e5ee45d26 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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a045db233418dd73fbe 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
2e1cee529cb59e9341afe04e43f196a1 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
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
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Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

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):
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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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That's all there is to it!
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 *
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 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
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 */
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DAMAGE.

Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 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 2nd primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd7f8e 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
2e1cee529cb59c9341afe0443f196a1 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

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 0 16064 16065 7.9M 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

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096 6144</td>
<td>1M 4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096 20479</td>
<td>8M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0 16064</td>
<td>7.9M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

<table>
<thead>
<tr>
<th>0</th>
<th>unused</th>
<th>5 4.1BSD</th>
<th>9 4.4LFS</th>
<th>d boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>6 Eighth Edition</td>
<td>a unknown</td>
<td>e ADOS</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7 4.2BSD</td>
<td>b HPFS</td>
<td>f HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8 MS-DOS</td>
<td>c ISO-9660</td>
<td>10 AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Command (m for help):

1.139 libboost-iostreams1.58.0:amd64
1.58.0+dfsg :5ubuntu3.1
1.139.1 Available under license:

```xml
<?xml version="1.0" encoding="utf-8"?>

<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
Subject to the Boost Software License, Version 1.0.
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
</section>

The following is the overall license for the boost date_time
library. This notice is found in all source files related to the
library.

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Boost.Geometry (aka GGL, Generic Geometry Library)

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=============================================================================/
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
*/
*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
* *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        ;
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<html>
<head>
<title>Boost Licence Dependency Information
" if(m_module_list.size() == 1)
boost licence dependency information

<h1>Boost Licence Dependency Information</h1>

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</title>
" << "</head>
" << "</body>
" << "<h1>Boost Licence Dependency Information</h1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</h1>
" << "</h2>
" << "<pre>
" << "<a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
{
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>
    while(i != j)
    {
        // title:
        os << " <a href="#input">Input Information</a>" << licenses.first[i->first].license_name
        os << "</a>\n";
        ++i;
    }

os << "<a href="#files">Files with no recognised license</a>
" << "<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
    " << "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    " << "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    " << "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    " << "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    " << "<a href="#copyright">Copyright Holder Information</a>
    }

os << "<a href="#depend">File Dependency Information</a>
" << "</pre>

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
;
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>
";
else
  os << "<P>The following Boost modules were checked:<BR>
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
";
  ++si;
}
o<w<k://<p>The Boost path was: <code>&lt;code&gt;&lt;&lt; m_boost_path.string() &lt;&lt; "/&lt;/code&gt;&lt;/code&gt;&lt;/p&gt;
";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^\[[:blank:]*\]*#\[[:blank:]*\]*define\[[:blank:]*\]+BOOST\_VERSION\[[:blank:]*\]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
o<w<k://<p>The Boost version is: " &lt;&lt; version / 100000 &lt;&lt; "." &lt;&lt; version / 100 &lt;&lt; 100 &lt;&lt; "." &lt;&lt; version &lt;&lt; &lt;&lt; "&lt;/p&gt;
";
}
//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  //
  // start with the summary:
  //
o<w<k://<p>&lt;a name="summary"&gt;&lt;/a&gt;&lt;h2&gt;Licence Summary&lt;/h2&gt;
";
while(i != j)
{
  // title:
o<w<k>::&lt;&lt; licenses.first[i-&gt;first].license_name &lt;&lt; "&lt;/H3&gt;
";
// license text:
o<w<k>::&lt;&lt; &lt;&lt; BLOCKQUOTE&gt;&lt;&lt; licenses.first[i-&gt;first].license_text &lt;&lt; &lt;/BLOCKQUOTE&gt;
";
// Copyright holders:
This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << ">
(see details)</a>";

os << "</P></BLOCKQUOTE>\n";
++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
    os << "<H3><A name=" << make_link_target(licenses.first[i->first].license_name) << ""></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << "<BR>\n";
    ++x;
}
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << " files:";
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "\n";
    ++m;
}
    os << "</P></BLOCKQUOTE>\n";
}
else
{
   os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>
   os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
   os << split_path(m_boost_path, *i2) << "<br>
   ++i2;
}
   os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
   os << split_path(m_boost_path, *i2) << "<br>
   ++i2;
}
} os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
   //
   // Output list of files that have been moved over to the Boost
   // Software License, along with enough information for human
   // verification.
   //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><p>
   "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[
        " << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
<< " <tt><br><tt>\n<table border="1">\n <tr><td><pre>"
<< i->second.first << "</pre></td><\n </tr><td><pre>"
<< i->second.second << "</pre></td><\n </tr></table>\n";
        ++i;
        ++file_num;
    }
}

// Output list of files that could be moved over to the Boost Software License
//

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[
        " << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
<< " <tt><br><tt>\n<table border="1">\n <tr><td><pre>"
<< i->second.first << "</pre></td><\n </tr><td><pre>"
<< i->second.second << "</pre></td><\n </tr></table>\n";
        ++i;
        ++file_num;
    }
}

// Output list of files that can not be moved over to the Boost Software License
//

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";
```
// Output list of authors that we need permission for to move to the BSL
//
// os << "<h2><a name="need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>
<BLOCKQUOTE><p>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";

// output a table of copyright information:

// os << "<H2><a name="copyright\"></a>Copyright Holder Information</H2>\ntable border="1"\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " 
";
        ++fi;
    }
    os << "</td><tr>\n";
    ++ad;
} os << "</table>\n";

// output file dependency information:

// os << "<H2><a name="depend\"></a>File Dependency Information</H2>\n<pre>"
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(),
       ie = m_converted_to_bsl.end();

while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}

fi = bad_paths.begin();
efi = bad_paths.end();

os << "<P>For brevity, only files not under the BSL are shown</P><br/>
";
}

while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if(dep != last_dep)
    
    while(true)
    {
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
     os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
     os << split_path(fs::path(), dep->second);
    else
    os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
    os << "<I>(Circular dependency!)</I>";
    break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
    
    os << "\n";
    ++fi;
    }

    os << "</pre></BLOCKQUOTE>\n";

    os << "</body></html>\n";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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//
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//
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

        } // container_detail
    } // container
} // boost

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template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
    operator bool() const { return bool_::value; }
};

template< unsigned V_ >
struct unsigned_ : integral_constant<unsigned, V_>
{
    static const unsigned value = V_;  
    operator unsigned() const { return unsigned_::value; }
};
typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_   true_type;
typedef false_  false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};
#if defined(_MSC_VER) && (_MSC_VER >= 1400)
template <class T, class U>
struct is_convertible
{ static const bool value = __is_convertible_to(T, U); }

#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; // use any_conversion as first parameter since in MSVC
    // overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T argument_type;
    typedef T result_type;
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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namespace boost {
namespace interprocess {

#include <cstddef>

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP

#include <boost/config.hpp>

#endif

#ifdef BOOST_HAS_PRAGMA_ONCE

#pragma once

#endif

#include <cstdlib>

namespace boost {
namespace interprocess {
namespace ipc detail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_;  
    };

    typedef bool_<true> true_;
    typedef bool_<false> false_;

typedef true_ true_type;

typedef false_ false_type;

typedef char yes_type;

    struct no_type
    {
        char padding[8];
    };

    template <bool B, class T = void>
    struct enable_if_c 
    {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {}; 

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {}; 

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {}; 

    template <class T, class U>
    class is_convertible
    {
        typedef char true_t;
        class false_t { char dummy[2]; }; 
        static true_t dispatch(U);
        static false_t dispatch(...);
    };

}
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//@ : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
   // : public std::unary_function<T,T>
{
   typedef T type;
   const T& operator()(const T& x) const
   { return x; }
};

template<std::size_t S>
struct ls_zeros
{
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
   static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
   static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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// //
#
#endif BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

template <typename T, typename U>
struct is_same
{
  static const bool value = false;
};

template <typename T>
struct is_same<T, T>
{
  static const bool value = true;
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef  T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

}}
}}

}
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class T>
struct remove_pointer
{
  typedef T type;
};

template<class T>
struct remove_pointer<T*>
{
  typedef T type;
};

template<class T>
struct add_pointer
{
  typedef T *type;
};
typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
  static const bool value = C_;  
};

template< class Integer, Integer Value >
struct integer
static const Integer value = Value;

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; };

    #else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; }:

    #endif

#endif

//use any_conversion as first parameter since in MSVC
//overaligned types can't go through ellipsis
static false_t dispatch(...);
static true_t dispatch(U);
static typename remove_reference<T>::type &trigger();
public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename C
 , typename T1
 , typename T2
>
struct if_<
{
  typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
  bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{};}
template<
    typename C,
    typename T1,
    typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
            , typename add_const<T>::type
            , T
        >::type type;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{ static const std::size_t value = alignment_logic
  < sizeof(alignment_of_hack<T>\) - sizeof(T)
    , sizeof(T)
  >::value;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; };

  public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<s>>1u>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template<typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \

template <typename T, typename DefaultValue>
struct boost_intrusive_default_type_##TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap { typedef DefaultValue TNAME; }

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::if_c
        <value, T, DefaultWrap>::type::TNAME type;
};

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)

    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_default_type_##TNAME< T, TIMPL >::type

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPL(TNAME)

    template <typename T, typename DefaultValue>
    struct boost_intrusive_eval_default_type_##TNAME
    {
        template <typename X>
        static char test(int, typename X::TNAME*);

        template <typename X>
        static int test(...);

        struct DefaultWrap
        {
            typedef typename DefaultValue::type TNAME;
        }

        static const bool value = (1 == sizeof(test<T>(0, 0)));

        typedef typename
            ::boost::intrusive::detail::eval_if_c
            < value
                , ::boost::intrusive::detail::identity<T>
                , ::boost::intrusive::detail::identity<DefaultWrap>
            >::type::TNAME type;
    };

    typedef typename
        ::boost::intrusive::detail::eval_if_c
        < value
            , ::boost::intrusive::detail::if_c
                <value, T, DefaultWrap>::type::TNAME type;

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)\
    typename INSTANTIATION_NS_PREFIX\
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type\

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)\
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {one _[2 + Add];};\
    template <class U> static one test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;\
};\

//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)\
    template <typename U, typename Signature>\
    class TRAITS_NAME\
    {\
        private:\
        template<Signature> struct helper;\
        template<typename T>\
        static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);\
        template<typename T> static ::boost::intrusive::detail::no_type check(...);\
        public:\
        static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\
    };

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\
    template <typename Type>\
    struct TRAITS_NAME\
    {\
        struct BaseMixin\
        {\
            void FUNC_NAME();\
        };
    };
```cpp
};

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLEDIGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME)

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

template <typename Type, class>
struct TRAITS_NAME
: public TRAITS_NAME##_ignore_signature<Type>
{ }

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        static_cast<void*>(
            reinterpret_cast<const char&>(obj))
    );
}

#include <boost/intrusive/detail/config_end.hpp>
```

Open Source Used In Ultra Services Platform Version 6.10

6007

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). 

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. 

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds.
for broken compilers.
</p>
<p>
Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">true_<span class="identifier">T</span></code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">false_<span class="identifier">T</span></code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">integral_c</code>` (provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>).</p>
*/
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* 
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {} 
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="""" << (p.root / p.file).string() << """">"" << p.file.string() << """"';
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {  

result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<DOCTYPE HTML PUBLIC "-/W3C//DTD HTML 4.0 Transitional//EN"">\n"
        "<html>
        "<head>
        
        
        "<title>Boost Licence Dependency Information"
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</title>
        
        "</head>
        
        "<body>
        
        
        "<H1>Boost Licence Dependency Information"
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</H1>
        
        "<H2>Contents</h2>
        
        "<pre><a href="#input">Input Information</a>
        
        "<a href="#summary">Licence Summary</a>
        
        "<a href="#details">Licence Details</a>";}
while(i != j)
{
    // title:
    os << "<A href="#" make_link_target(licenses.first[i->first].license_name)"/>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

if(m_scan_mode)
{
    os << "<P>The following files were scanned for boost dependencies:<BR>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

else
{
    os << "<P>The following Boost modules were checked:<BR>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<P>The Boost path was: <code>" << m_boost_path.string() << "</code>
    " << licenses.first[i->first].license_name << "</a>
    ++i;
}

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]+\d+\)(\d+)));
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: \"<< version / 100000 << ".\" << version / 100 % 1000 << ".\" << version % 100

    //
    // output each license:
    //
    i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary">""<h2>Licence Summary</h2>
while(i != j)
{
    // title:
    os <<
        "<H3>" << licenses.first[i->first].license_name << "</H3>

    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";

    // Copyright holders:
    os << "<P>This license is used by " "<< i->second.authors.size()
        " authors and " "<< i->second.files.size()
        " files <a href="#" make_link_target(licenses.first[i->first].license_name) ">(see details)</a>";
    os << "</P></BLOCKQUOTE>

++i;
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
while(i != j)
{
    // title:
    os <<
        "<H3>A name="" "make_link_target(licenses.first[i->first].license_name)
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_name << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P>

    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
    while(x != y)
    {
        os << "<BR>
";
        ++x;
    }
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << " files:

    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
    while(m != n)
    {
        os << split_path(m_boost_path, *m) << "<br>
";
        ++m;
    }
    os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
" << m_unknown_licenses.size() << " files had no recognisable license information:<P>

    std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
    while(i2 != j2)
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder\n";
//<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:\n\n</BLOCKQUOTE><P>";

i2 = m_unknown_authors.begin();

j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
// os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
// License</h2><\n";

<< "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:\n";

if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
    os << "<P>"[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        "</tt><br>\n
        <\tr><\td><pre>
        << i->second.first << "</pre"
        << i->second.second << 
        "</pre></td><\n
        \n        <\tr><\td></pre>
    ++i;
    ++file_num;
    }
}
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

<P>The following " << m_can_migrate_to_bsl.size() << " files could be converted to the Boost Software License, but have not yet been:

<BLOCKQUOTE><P>

tet/boost/h2><a name="not-to-bsl">Files that can NOT be converted to the Boost Software License</tet/h2>
" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>
";

// Output list of authors that we need permission for to move to the BSL
//
// List of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::map<std::string, fs::path, path_less>::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << ad->first << "<td><br>
";
    ++ad;
}

os << "</p></BLOCKQUOTE>
";

// output a table of copyright information:
//
os << "<H2><a name="copyright">Copyright Holder Information</H2><table border="1" cellpadding="1"
<br>
";

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td>";
    ++ad;
}

os << "</table><p></p>";
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
  os << split_path(m_boost_path, *fi) << " ";
  ++fi;
}
os << "</td></tr><tr>
";
++ad;
}
os << "</table>
";
}

//
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
  bad_paths.insert(i->first);
  ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
";
}
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  os << " ";
  ++fi;
  if(dep != last_dep)
  {
    os << split_path(m_boost_path, *dep->first) << " ";
    ++dep;
  }
  os << "</td></tr><tr>
";
++ad;
}
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
  while(true)
  {
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
      os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
      os << split_path(fs::path(), dep->second);
    else
      os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
      {
        os << " <I>(Circular dependency!)</I>";
        break; // circular dependency!!!
      }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
      break;
  }
  os << "\n"
  ++fi;
}

if(!os)
{
  std::string msg("Error writing to ");
  msg += m_dest_path.string();
  msg += ".
  std::runtime_error e(msg);
  boost::throw_exception(e);
}

[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
Copyright Test

<copyright>
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>

<copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>

<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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 */

This is Release 2.4 of Jam/MR, a make-like program.

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Distributed under the Boost Software License, Version 1.0.
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 Dossor (dossor@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauclmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
// //
// //
////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

namespace boost {
 namespace intrusive {
namespace detail {

    template <typename T, typename U>
    struct is_same
    {
        static const bool value = false;
    };

    template <typename T>
    struct is_same<T, T>
    {
        static const bool value = true;
    };

    template<typename T>
    struct add_const
    {  typedef const T type;  };

    template<typename T>
    struct remove_const
    {  typedef T type;  };

    template<typename T>
    struct remove_const<const T>
    {  typedef T type;  };

    template<typename T>
    struct remove_cv
    {  typedef T type;  };

    template<typename T>
    struct remove_cv<const T>
    {  typedef T type;  };

    template<typename T>
    struct remove_cv<const volatile T>
    {  typedef T type;  };

    template<typename T>
    struct remove_cv<volatile T>
    {  typedef T type;  };

    template<class T>
    struct remove_reference
    {
        typedef T type;
    };

}
template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*>;
{
    typedef T type;
};

template<class T>
struct add_pointer
{
    typedef T *type;
};
typedef char one;
struct two {one _[2];};

template< bool C_> 
struct bool_<
{
    static const bool value = C_; 
};

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};
typedef bool_<true>   true_;
typedef bool_<false> false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
char padding[8];
;

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}
;

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply {
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

    template <class T, class U>
    struct is_convertible {
        static const bool value = __is_convertible_to(T, U);
    };
#else

    template <class T, class U>
    class is_convertible {
        typedef char true_t;
        class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC
        //overaligned types can't go through ellipsis
        static false_t dispatch(...);
        static true_t dispatch(U);
        static typename remove_reference<T>::type &trigger();
        public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
    };
#endif

    template <
        bool C
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> struct if_c
{  
typedef T1 type;
};

template<
    typename T1
    , typename T2
>
> struct if_c<false,T1,T2>
{  
typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
> struct if_
{  
typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
> struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
> struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
typedef T type;

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
    < Add
        , typename add_const<T>::type
        , T
    >::type type;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std:size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
    >::value;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
empty_helper_t1();
int i[256];
};

struct empty_helper_t2
{ int i[256]; };

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<S>>(S)))::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T &type; }
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; }
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; }

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T, typename DefaultType>                    \
        struct boost_intrusive_default_type_ ## TNAME                  \
        {                                                              \
          template <typename X>                                       \
            static char test(int, typename X::TNAME*);                  \
            static int test(...);
            struct DefaultWrap { typedef DefaultType TNAME; };          \
            static const bool value = (1 == sizeof(test<T*>(0, 0)));
        }
typedef typename
::boost::intrusive::detail::if_c
<value, T, DefaultWrap>::type::TNAME type;

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_##TNAME< T, TIMPL >::type
    
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type
    
//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
    template <typename T, typename DefaultType> \
    struct boost_intrusive_eval_default_type_##TNAME \
    {
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        
        template <typename X> \
        static int test(...); \
        
        struct DefaultWrap \
        { 
            typedef typename DefaultType::type TNAME; 
        }; \
        
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
    
    typedef typename
    ::boost::intrusive::detail::eval_if_c
    <value
    , ::boost::intrusive::detail::identity<T>
    , ::boost::intrusive::detail::identity<DefaultWrap>
    >::type::TNAME type; 
    
    
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type
    
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
    template <class T>
    struct TRAITS_PREFIX##_bool
    { 
        template<bool Add>
    
        template<bool Add>
    
        template<bool Add>
    
        template<bool Add>
struct two_or_three {one _[2 + Add];};

template <class U> static one test(...);

template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
static const std::size_t value = sizeof(test<T>(0));

}:

\template <class T>
struct TRAITS_PREFIX##_bool_is_true{

\static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
\n}:

//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
template<typename U, typename Signature> \nclass TRAITS_NAME {

private:

\template<Signature> struct helper;
\template<typename T> \nstatic ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);
\template<typename T> static ::boost::intrusive::detail::no_type check(...);

public:

\static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);

};:

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \nstruct TRAITS_NAME {

struct BaseMixin {

\void FUNC_NAME();
\n};

\struct Base : public Type, public BaseMixin { Base(); };
\template <typename T, T t> class Helper{};
\template <typename U> \
static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
\static ::boost::intrusive::detail::yes_type check(...);

\static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0)));

};:

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME)
template <typename Type, class>
struct TRAITS_NAME
: public TRAITS_NAME##_ignore_signature<Type>
{};

//
//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        reinterpret_cast<const char&>(obj)
    );
}

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#ifdef //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/config.hpp>

#pragma once

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifdef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/config.hpp>

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/// // http://www.boost.org/LICENSE_1_0.txt)
/// //******************************************************************************

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```cpp
#define

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T, val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_; 
                operator bool() const { return bool_::value; } 
            };

            template< unsigned V_ >
            struct unsigned_ : integral_constant<unsigned, V_> {
                static const unsigned value = V_; 
                operator unsigned() const { return unsigned_::value; } 
            };

            typedef bool_<true> true_;
            typedef bool_<false> false_;

            typedef true_ true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };
        }
    }
}
```
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}; 

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {}; 

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible 
{
    static const bool value = __is_convertible_to(T, U); 
}; 

#else 

template <class T, class U>
class is_convertible 
{
    typedef char true_t; 
    class false_t { char dummy[2]; }; 
    //use any_conversion as first parameter since in MSVC 
    //overaligned types can't go through ellipsis 
    static false_t dispatch(...); 
    static true_t  dispatch(U); 
    static T &trigger();  
    public: 
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t); 
}; 

#endif 

template<
    bool C 
, typename T1 
, typename T2 
>
struct if_c
{
    typedef T1 type; 
};
template<typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T argument_type;
    typedef T result_type;

    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

 tribalboost:public::interprocess::detail::mpl::config _ipmpl


 naar

\begin{code}
\begin{verbatim}

struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

 tribalboost:public::interprocess::detail::mpl::config _ipmpl

\end{verbatim}
\end{code}
#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cstdint>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_;  
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type
            {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> {};

        }  // namespace ipcdetail
    }  // namespace interprocess
}  // namespace boost
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}
;

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}
;

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};
template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

//namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that:
true_type inherits from <a href="reference/integral_constant.html" title="integral_constant">boost</a>&lt;mpl&gt;&lt;span class="special">true</span>&lt;/mpl&gt;&lt;/code&gt;
false_type inherits from <a href="reference/integral_constant.html" title="integral_constant">boost</a>&lt;mpl&gt;&lt;span class="special">false</span>&lt;/mpl&gt;&lt;/code&gt;

integral_constant&lt;T,v&gt; inherits from <a href="reference/integral_constant.html" title="integral_constant">boost</a>&lt;mpl&gt;&lt;span class="special">integral_c</span>&lt;T,v&gt;&lt;/mpl&gt;&lt;/code&gt;
(provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>)
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All the value based traits in this library conform to MPL's requirements for an integral constant: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T, v>` (provided `T` is not `bool`).

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
        return line
    return f()
def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\W*\((c)\)? \copyright \((c)\)? \d{4}(?:-(\d{4}))? \(\?P\[name\].+?\)', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
            if len(prefix) != 1:
                print 'Not found:', filename
                return
        prefix = list(prefix)[0]
        print filename
        new = iter(new_copyright(filename, names))
        with open(filename, 'w') as f:
            for i, line in enumerate(content):
                if i in lines:
                    for repl in new:
                        print >>f, prefix + repl
                else:
                    print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename
    for f in all_files():
        fix_copyright(f)

<?xml version="1.0" encoding="utf-8"?>

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Jeff Garland
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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
   static const T value = val;
   typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
   static const bool value = C_;
};

typedef bool_<true>         true_;
typedef bool_<false>        false_;
typedef true_  true_type;

}}
}
#endif //BOOST_INTERPROCESS_DETAIL_MPL_HPP
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
    >
sstruct if_c
    {
    typedef T1 type;
    };

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }
    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
template<>
struct ls_zeros<1>  
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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//
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#endif  #ifndef BOOST_CONFIG_HPP

#include <boost/config.hpp>

#include <cstddef>

namespace boost {
    namespace intrusive {
        namespace detail {

            template <typename T, typename U>
            struct is_same
            {
                static const bool value = false;
            };

            template<>
            struct ls_zeros<1>
            {
                static const std::size_t value = 0;
            };

        }  //namespace detail {
    }  //namespace intrusive {
}  //namespace boost {

#endif  //#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#if defined(BOOST_HAS_PRAGMA_ONCE)
    #pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
    namespace intrusive {
        namespace detail {

            template <typename T, typename U>
            struct is_same
            {
                static const bool value = false;
            };

        }  //namespace detail {
    }  //namespace intrusive {
}  //namespace boost {

#endif  //BOOST_INTRUSIVE_DETAIL_MPL_HPP
template <typename T>
struct is_same<T, T>
{
    static const bool value = true;
};

template<typename T>
struct add_const
{
    typedef const T type;
};

template<typename T>
struct remove_const
{
    typedef T type;
};

template<typename T>
struct remove_const<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};
template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*> // This line seems to be a typo or extra; it might be intended to be `remove_pointer<T*>` instead.
{
    typedef T type;
};

// Corrected template class definitions

template<class T>
struct add_pointer
{
    typedef T *type;
};

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; // Corrected syntax by removing '
';
};

// Corrected template class definitions

template<class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

// Corrected template class definitions

// This template class definition seems to be incomplete or incorrect.
// The type `T` should not be `= void`.

// Further corrections and clarifications would be needed for a complete and accurate representation.

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t; 
    class false_t { char dummy[2]; }; 
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static typename remove_reference<T>::type &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_<
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if_<
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{ typedef typename if_c
  < Add
    , typename add_const<T>::type
    , T
  >::type type; }

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
  alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
  static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T)
      , sizeof(T)
    >::value;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; };
public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     
template <typename T, typename DefaultType>
struct boost_intrusive_default_type_ ## TNAME                  
{
  template <typename X>                                       
  static char test(int, typename X::TNAME*);                  

  template <typename X>                                       
  static int test(...);                                       

  struct DefaultWrap { typedef DefaultType TNAME; };          

  static const bool value = (1 == sizeof(test<T>(0, 0)));     

typedef typename                                            
  ::boost::intrusive::detail::if_c                         
  <value, T, DefaultWrap>::type::TNAME type;            
};                                                             
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \   typename INSTANTIATION_NS_PREFIX \   boost_intrusive_default_type__ ## TNAME< T, TIMPL >::type \   

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\  template <typename T, typename DefaultType> \  struct boost_intrusive_eval_default_type_ ## TNAME \  { \  template <typename X> \  static char test(int, typename X::TNAME*); \  \  template <typename X> \  static int test(...); \  \  struct DefaultWrap \  { typedef typename DefaultType::type TNAME; }; \  \  static const bool value = (1 == sizeof(test<T>(0, 0))); \  \  typedef typename \  ::boost::intrusive::detail::eval_if_c \  < value \  , ::boost::intrusive::detail::identity<T> \  , ::boost::intrusive::detail::identity<DefaultWrap> \  >::type::TNAME type; \  }; \  

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \   typename INSTANTIATION_NS_PREFIX \   boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \   

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)\  template <class T>\  struct TRAITS_PREFIX##_bool\  {\  template<bool Add>\  struct two_or_three {one _[2 + Add];};\  template <class U> static one test(...);\  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\  static const std::size_t value = sizeof(test<T>(0));\  }\  \  


template <class T>\nstruct TRAITS_PREFIX##_bool_is_true\n{\n    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;\n};\n
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)\ntemplate <typename U, typename Signature> \nclass TRAITS_NAME \n{\n    private:\n    template<Signature> struct helper;\n    template<typename T> \n    static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*); \n    template<typename T> static ::boost::intrusive::detail::no_type check(...); \n    public:\n    static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \n};\n
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\ntemplate <typename Type> \nstruct TRAITS_NAME \n{\n    struct BaseMixin \n    {\n        void FUNC_NAME();\n    };\n    struct Base : public Type, public BaseMixin { Base(); };\n    template <typename T, T t> class Helper{}; \n    template <typename U> \n    static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \n    static ::boost::intrusive::detail::yes_type check(...); \n    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); \n};\n
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME)\nBOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

}};\n
template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        (const_cast<char*>(
            reinterpret_cast<const char&>(obj))
    );
}

#include <boost/intrusive/detail/config_end.hpp>

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xsi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from `boost::mpl::true_`,
`__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from
`boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
All the value based traits in this library conform to MPL’s requirements for an integral constant type that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `<code class="computeroutput">boost</code>` and `false_type` inherits from `<code class="computeroutput">mpl</code>`, and `integral_constant<T, v>` inherits from `<code class="computeroutput">mpl::integral_c<T, v></code>` (provided `T` is not `bool`).
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-%1'
            line = 'Copyright ' + fmt.format(start.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

    def fix_copyright(filename):
        # Find copyright block in original file
        prefix = set()
        names = []
        lines = []

        # Find copyright block in original file
        prefix = set()
        names = []
        lines = []
with open(filename, 'r') as f:
    content = list(f)
for i, line in enumerate(content[:15]):
    m = re.match(r'^\W*(\(c\))?\s*copyright\s*(\(c\))?\d{4}(\s*\-\s*\d{4})?\s+(\(?P<prefix>\W*)(.+)?\s*$', line, re.IGNORECASE)
    if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

<?xml version="1.0" encoding="utf-8"?>
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   (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt) -->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="..//..//index.htm">
   <imagedata align="left"
   format="GIF"
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

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Jeff Garland © 2000-2002

Boost.Geometry (aka GGL, Generic Geometry Library)

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[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
Maybe this should pass?
/
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*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){ }
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{  
    os << "<a href=""" << (p.root / p.file).string() << ":"" << p.file.string() << ">":"";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        ;
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os << "<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"\n" "<html>\n" "<head>\n" "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << "<H1>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << 
    "</title>\n" 
    "</head>\n" 
    "<body>\n" 
    "<H1>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << 
    "</H1>\n" 
    "<H2>Contents</h2>\n" 
    "<pre> <a href="#input">Input Information</a>\n"
if(!m_bsl_summary_mode)
  os << "<a href="#summary">Licence Summary</a><br>
";
  os << "<a href="#details">Licence Details</a><br>
";

while(i != j)
{
  // title:
  os << "<A href="#" make_link_target(licenses.first[i->first].license_name)" xmlns">" licenses.first[i->first].license_name ""</a><br>
++i;
}

os << "<a href="#files">Files with no recognised license</a><br>
";
  "<a href="#authors">Files with no recognised copyright holder</a><br>
";
if(!m_bsl_summary_mode)
{
  os << 
  "Moving to the Boost Software License...\n"
  "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a><br>
";
  "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a><br>
";
  "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a><br>
";
  "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a><br>
";
  "<a href="#copyright">Copyright Holder Information</a><br>
";
}

os << 
  "<a href="#depend">File Dependency Information</a><br>
";
  "</pre>";

// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2><br>
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>
";
else
  os << "<P>The following Boost modules were checked:<BR>
"

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
";
++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*# define \[[:blank:]]+BOOST_VERSION\[[:blank:]]+\(\d+\)\); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
        << "</P>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary" class="summary">" << "Licence Summary</h2><h2></h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) >= "">(see details)</a>";
        os << "</P></BLOCKQUOTE><h2>\n";
        ++i;
    }
    //
    // and now the details:
    //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details" class="details">" << "Licence Details</h2><h2></h2>\n";
    while(i != j)
    {
// title:
os <<
"<H3><A name="\"" " make_link_target(licenses.first[i->first].license_name)
"\"</a>" " licenses.first[i->first].license_name << "</H3>\n";

// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
    os << "This license is used by the following " << i->second.authors.size() << " copyright holders:
";
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P></BLOCKQUOTE>\n";

    // Files using this license:
    os << "This license applies to the following " << i->second.files.size() << " files:
";
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).
";
    os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).
"
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
os << "Files With No Recognisable Licence";
"\n";
"The following " << m_unknown_licenses.size() << " files had no recognisable license information:
";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"<P> The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
</P><BLOCKQUOTE><P>
"
"<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>
";
if(!m_bsl_summary_mode)
{
  //
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>
";
  // The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:
</P><BLOCKQUOTE><P>
  if (!m_converted_to_bsl.empty())
  {
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
      os << "<P>
"; File: <tt>"" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
      "<tt>" split_path(m_boost_path, i->first)
    ++i;
    ++file_num;
Files that could be converted to the Boost Software License

The following files could be manually converted to the Boost Software License, but have not yet been:

Files that can NOT be converted to the Boost Software License because we need the permission of more authors:

Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

Authors need for the BSL:

Permission of the following authors is needed before we can convert to the Boost Software License.
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " </td><td>"
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}
os << "</table>";

//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
os << "For brevity, only files not under the BSL are shown</P>";
}
while(fi != efi)
{

os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
            
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Copyright:

/\)
+\Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
:\+

This is Release 2.4 of Jam/MR, a make-like program.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_INTRUSIVE_DETAIL_MPL_HPP)
#endif

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#if defined(BOOST_CONFIG_HPP)
    # include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
    # pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstdlib>

namespace boost {
namespace intrusive {
namespace detail {

    template <typename T, typename U>
    struct is_same
    {
        static const bool value = false;
    }

    template <typename T>
    struct is_same<T, T>
    {
        static const bool value = true;
    }

    template<typename T>
    struct add_const
    {  typedef const T type;   }

    template<typename T>
    struct remove_const
    {  typedef  T type;   }

    template<typename T>
    struct remove_const<const T>
    {  typedef T type;   }

    template<typename T>
    struct remove_cv
    {  typedef  T type;   }

    template<typename T>
    struct remove_cv<const T>
    {  typedef T type;   }

    template<typename T>
    struct remove_cv<const volatile T>
    {  typedef T type;   }

    template<typename T>
    struct remove_cv<volatile T>
    {  typedef T type;   }

    template<class T>
    struct remove_reference

typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*> 
{
    typedef T type;
};

template<class T>
struct add_pointer
{
    typedef T *type;
};
typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};  

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value; 
};
typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static typename remove_reference<T>::type &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif
#endif

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{
};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{
};
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
        , typename add_const<T>::type
        , T
        >::type type;
};

template<typename T> struct alignment_of;

template <typename T> struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template<class Class>
class is_empty_class
template <typename T>
struct empty_helper_t1 : public T
{
    empty_helper_t1();
    int i[256];
};

struct empty_helper_t2
{ int i[256]; };

public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T & type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                 \
    {
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        template <typename X>                                       \
        static int test(...);                                       \
    
    

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6102
struct DefaultWrap { typedef DefaultType TNAME; }; \
static const bool value = (1 == sizeof(test<T>(0, 0))); \
typedef typename \
:boost::intrusive::detail::if_c \
<value, T, DefaultWrap>::type::TNAME type; \
}; 
//
#
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
typename INSTANTIATION_NS_PREFIX \
boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type 
//
#
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType> \
struct boost_intrusive_eval_default_type_ ## TNAME \
{ 
    template <typename X> 
    static char test(int, typename X::TNAME*); 
    
    template <typename X> 
    static int test(...); 
    
    struct DefaultWrap 
    { typedef typename DefaultType::type TNAME; }; 
    
    static const bool value = (1 == sizeof(test<T>(0, 0))); 
    
typedef typename \
:boost::intrusive::detail::eval_if_c \
< value \
, :boost::intrusive::detail::identity<T> \
, :boost::intrusive::detail::identity<DefaultWrap> \
>::type::TNAME type; 
}; 
//
#
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
typename INSTANTIATION_NS_PREFIX \
boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type 
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \

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template <class T>
struct TRAITS_PREFIX##_bool
{
    template<bool Add>
    struct two_or_three {one _[](2 + Add);}
    template <class U> static two_or_three test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
};

template <class T>
struct TRAITS_PREFIX##_bool_is_true
{
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
};

#ifndef BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)
    template <typename U, typename Signature> 
    class TRAITS_NAME 
    {
        private:
        template<Signature> struct helper;
        template<typename T> 
        static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);
        template<typename T> static ::boost::intrusive::detail::no_type check(...);
        public:
        static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
    };
#endif

#ifndef BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)
    template <typename Type> 
    struct TRAITS_NAME 
    {
        struct BaseMixin 
        { 
            void FUNC_NAME(); 
        };
        struct Base : public Type, public BaseMixin 
        { Base(); };
        template <typename T, T t> class Helper{};
        template <typename U> 
        static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); 
        static ::boost::intrusive::detail::yes_type check(...);
        static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); 
    };
#endif

}
```cpp
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ 
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};

namespace intrusive
{
namespace boost
{

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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#include <boost/intrusive/detail/config_end.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

template <typename T>
inline T* addressof(T& obj)
{
  return static_cast<T*>(
    static_cast<void*>(
      reinterpret_cast<const char&>(obj))
  );
}

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////
```
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;  
  operator bool() const { return bool_::value; } 
};

template< unsigned V_ >
struct unsigned_ : integral_constant<unsigned, V_>
{
  static const unsigned value = V_; 
  operator unsigned() const { return unsigned_::value; } 
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
  char padding[8]; 
};
template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
  static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC //overaligned types can't go through ellipsis
  static false_t dispatch(...);
  static true_t dispatch(U);
  static T &trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

template<
  bool C
  , typename T1
  , typename T2
  >
struct if_c
{
   typedef T1 type;
};

template<
   typename T1
   , typename T2
>
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
   typename T1
   , typename T2
   , typename T3
>
struct if_
{
   typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
   typedef Pair argument_type;
   typedef typename Pair::first_type result_type;

   template<class OtherPair>
   const typename Pair::first_type& operator()(const OtherPair& x) const
   {  return x.first;   }

   const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
   {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
   typedef T argument_type;
   typedef T result_type;

   typedef T type;

   const T& operator()(const T& x) const
   { return x; }
};
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;    
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}; 


template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};


template<
  bool C 
  , typename T1 
  , typename T2 
  >
struct if_c
{
  typedef T1 type;
};


template<
  typename T1 
  , typename T2 
  >
struct if_c<false,T1,T2>
{
  typedef T2 type;
};


template<
  typename T1 
  , typename T2 
  , typename T3 
  >
struct if_
{

typedef typename if_c<0 != T1::value, T2, T3>::type type;

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {
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All the value-based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds.
for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">boost</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">integral_c</code>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`).
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

```python
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            yield author, dates

    def authors(filename):
        log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
        for line in log.splitlines():
            author, date = line.split('	')
            if author != 'fix-copyright.py':
                yield author, datetime.strptime(date, '%Y-%m-%d')

    def new_copyright(filename, previous):
        def f():
            au = list(authors(filename))
            alldates = map(itemgetter(1), au)
            aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
            for author, records in groupby(aup, itemgetter(0)):
                dates = filter(None, map(itemgetter(1), records))
                if not dates: dates = alldates
                yield author, dates
```

```
start = min(dates)
end = max(dates)
fmt = '{0}' if start.year == end.year else '{0}-{1}'
line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
key = (start, author)
yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
names = []
lines = []
with open(filename, 'r') as f:
    content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^(?P<prefix>\W*)(\(c\))\?\s*?copyright\s*\(\(c\)\)?\s+\d+\s*?\d*\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)
            names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print prefix + repl
            else:
                print line,
        pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename
    for f in all_files():
        fix_copyright(f)
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

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//
//
///////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstdlib>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
};

} // namespace ipcdetail
} // namespace interprocess
} // namespace boost

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};
template<
    typename T1,
    typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{}

template<
    class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{
    return x.first;
}

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{
    return x;
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{}

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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//
//
/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
template <typename T, typename U>
struct is_same
{
    static const bool value = false;
};

template <typename T>
struct is_same<T, T>
{
    static const bool value = true;
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef  T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;   };

template<class T>
struct remove_reference
{  typedef T type;   };

template<class T>
struct remove_const<T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*>  
{
    typedef T type;
};

template<class T>
struct add_pointer
{
    typedef T *type;
};
typedef char one;
struct two { one _[2];
;

template< bool C_ >
struct bool_
{
    static const bool value = C_;;
};

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};
typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static typename remove_reference<T>::type &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

#endif

template<
    bool C
, typename T1
template<
   typename C
   , typename T1
   , typename T2
>
struct if_<
   { typename if_c<0 != C::value, T1, T2>::type;
   };

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
        , typename add_const<T>::type
        , T
        >::type type;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
    };
};
int i[256];
};

struct empty_helper_t2
{ int i[256]; }
;

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
;

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template< typename T> struct unvoid_ref { typedef T & type; };

template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };

template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMTLP(TNAME)     \
template <typename T, typename DefaultType>                    \
struct boost_intrusive_default_type_ ## TNAME                  \
{                                                              \
  template <typename X>                                       \
  static char test(int, typename X::TNAME*);                  \
  \
  template <typename X>                                       \
  static int test(...);                                      \
  \
  struct DefaultWrap { typedef DefaultType TNAME; }           \
  \
  static const bool value = (1 == sizeof(test<T>(0, 0)));     \
  \
  typedef typename                                            \
  \
};
::boost::intrusive::detail::if_c
    <value, T, DefaultWrap>::type::TNAME type;
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_eval_default_type_ ## TNAME             \
    {                                                              \
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        struct DefaultWrap                                          \
        { typedef typename DefaultType::type TNAME; };              \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
        \
        typedef typename                                            \
        ::boost::intrusive::detail::eval_if_c                    \
        < value                                               \
        , ::boost::intrusive::detail::identity<T>                 \
        , ::boost::intrusive::detail::identity<DefaultWrap>        \
        >::type::TNAME type;                                      \
    };                                                             
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)
    typename INSTANTIATION_NS_PREFIX                                                            \
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type                            
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)
    template <class T>
    struct TRAITS_PREFIX##_bool
    {
        template<bool Add>
        struct two_or_three {one _[2 + Add];};
    }
template <class U> static one test(...);

template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

static const std::size_t value = sizeof(test<T>(0));
}

//

struct TRAITS_PREFIX##_bool_is_true
{
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
};

//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
  template <typename U, typename Signature> \
  class TRAITS_NAME \
  {

  private:
  template<Signature> struct helper;
  template<typename T> \
  static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*); \
  template<typename T> static ::boost::intrusive::detail::no_type check(...); \
  public:
  static const bool bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
  
  };;

//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
  template <typename Type> \
  struct TRAITS_NAME \
  {

  struct BaseMixin \
  {
   void FUNC_NAME();
  }

  struct Base : public Type, public BaseMixin { Base(); };

  template <typename T, T t> class Helper{};

  template <typename U>  \
  static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type check(...); \
  static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); 

  
  //

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
  BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \

//

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template <typename Type, class>
struct TRAITS_NAME
    : public TRAITS_NAME##_ignore_signature<Type> {
};

//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        static_cast<void*>(
            const_cast<char*>(
                reinterpret_cast<const char&>(obj))
        )
    );
}

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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for an [Integral Constant type] that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

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 (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 Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
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</div>
</body>
MPL Interoperability

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that 

```cpp
true_type
```

inherits from 

```cpp
boost::mpl::true_<
```

and 

```cpp
false_type
```

and 

```cpp
integral_constant<T,v>
```

(provided `T` is not `bool`)
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run('git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename,
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates:
                dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))
def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\W*(\(\(c\))\?s*copyright\(\(c\)\)?s+s+\d{4}(s*s*=\d{4})?s+\(\(P<name\.+?\)s*S', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,

    def all_files():
        ls = run(['git', 'ls-files'], universal_newlines=True)
        for filename in ls.splitlines():
            if magic.from_file(filename, mime=True).split('/')[0] == 'text':
                yield filename

        for f in all_files():
            fix_copyright(f)

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Jeff Garland

Boost.Geometry (aka GGL, Generic Geometry Library)

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Maybe this should pass?

/*
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 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&); 
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=""\"" << (p.root / p.file).string() << "\"" >> p.file.string() << "\"";return os;
}
std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os << "<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN""\n" "html>\n" "<head>\n" "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << " for " << *(m_module_list.begin());
}
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# Contents

[Input Information](#input)

- [Licence Summary](#summary)
- [Licence Details](#details)

while(i != j)
{
  // title:
  os << "<A href=\"#\" make_link_target(licenses.first[i->first].license_name) "\">
  "\"> "licenses.first[i->first].license_name "\"><a href=\"#\">
  ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"

- [Files with no recognised copyright holder](#authors)

if(!m_bsl_summary_mode)
{
  os << "Moving to the Boost Software License...
  "[Files that can be automatically converted to the Boost Software License](#bsl-converted)
  "Files that can be manually converted to the Boost Software License](#to-bsl)
  "Files that can NOT be moved to the Boost Software License](#not-to-bsl)
  "Authors we need to move to the Boost Software License](#need-bsl-authors)
  "Copyright Holder Information</a>\n"
}

os << "<a href=\"#depend\">File Dependency Information</a>\n"

"</pre>";

// input Information:

//

if(m_scan_mode)
{
  os << "The following files were scanned for boost dependencies: <BR>
else
{
  os << "The following Boost modules were checked: <BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
  ++si;
The Boost path was: `<code>` << m_boost_path.string() << `</code>`;

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp);
static const boost::regex version_regex(
    "^[[:blank:]]*\#define [[:blank:]]+BOOST_VERSION[[:blank:]+([\d]+)]");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<p>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="" << make_link_target(licenses.first[i->first].license_name) << "">(see details)</a>;";
        os << "</p>";</BLOCKQUOTE>\n";
        ++i;
    }
}

//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "\n";
while(i != j)
{
  // title:
os << "<a name="details"></a><h2>Licence Details</h2>
  while(i != j)
  {
    // title:
os << "<a name="details"></a><h2>Licence Details</h2>
    os << "<H3><A name="license"></a>" << licenses.first[i->first].license_name << "</H3><\n";
    os << "<a name="license"></a>" << licenses.first[i->first].license_name << "</H3><\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
      // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P><BLOCKQUOTE><P>"
      std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR><\n";
  ++x;
}
os << "</P></BLOCKQUOTE><\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:</P><BLOCKQUOTE><P>"
      std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
  os << split_path(m_boost_path, *m) << "<br><\n";
  ++m;
}
os << "</P></BLOCKQUOTE><\n";
    } else
    {
      os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P><\n";
      os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P><\n";
    }
    ++license_index;
    ++i;

  // Output list of files not found to be under license control:
Files With No Recognisable Licence

The following " << m_unknown_licenses.size() << " files had no recognisable license information:

std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
os << "\n"

Files With No Recognisable Copyright Holder

The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:

std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin();
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << split_path(m_boost_path, i->first) << "\n"
    ++i;
}
os << "\n"
// Output list of files that could be moved over to the Boost Software License
//
// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>"
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</p><BLOCKQUOTE><p>";

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>"
;
//
// Output list of files that can not be moved over to the Boost Software License
//
// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>"
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p><BLOCKQUOTE><p>";

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>"
;
//
// Output list of authors that we need permission for to move to the BSL
//
// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>"
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:</p><BLOCKQUOTE><p>";

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "\n"));

os << "</p></BLOCKQUOTE>";
```c++
//
// Copyright Holder Information
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " </td><td>
std::set<fs::path, path_less> ::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " 
++fi;
}
    os << ";
++ad;
}
    os << "</table>"
}

// output file dependency information:
//
// File Dependency Information
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less> ::const_iterator dep, last_dep;
std::set<fs::path, path_less> ::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
```

efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
os << split_path(fs::path(), dep->second);
else
    os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
    {
os << " <I>(Circular dependency!)</I>";
break; // circular dependency!!!
    }
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>";

if(!os)
{
std::string msg("Error writing to ");
msg += m_dest_path.string();
msg += ";
std::runtime_error e(msg);
boost::throw_exception(e);
}
}
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Copyright:

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+\n/+\n
This is Release 2.4 of Jam/MR, a make-like program.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(acg@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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//     http://www.boost.org/LICENSE_1_0.txt)
//
//
../../../../../../../../../../../../../../../../

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#endif

/* Config flags */

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#endif

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#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

    template <typename T, typename U>
    struct is_same
    {
        static const bool value = false;
    };

    template <typename T>
    struct is_same<T, T>
    {
        static const bool value = true;
    };

    template<typename T>
    struct add_const
    {  typedef const T type;   };

    template<typename T>
    struct remove_const
    {  typedef  T type;   };

    template<typename T>
    struct remove_const<const T>
    {  typedef T type;   };

    template<typename T>
    struct remove_cv
    {  typedef  T type;   };

    template<typename T>
    struct remove_cv<const T>
    {  typedef T type;   };

    template<typename T>
    struct remove_cv<const volatile T>
    {  typedef T type;   };

    template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class T>
struct remove_pointer
{
  typedef T type;
};

template<class T>
struct remove_pointer<T*>
{
  typedef T type;
};

template<class T>
struct add_pointer
{
  typedef T *type;
};

typed char one;
struct two {one _[2];};

template<bool C_>
struct bool_<
{
  static const bool value = C_;
};

template<class Integer, Integer Value>
struct integer
{
  static const Integer value = Value;
};
typedef bool_<true>  true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t  dispatch(U);
#endif
static typename remove_reference<T>::type &trigger();

public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

template<
bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
, typename T1
, typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
, typename F1
, typename F2
>
struct eval_if_c
    : if_c<0 != C::value, T1, T2>::type
{
};

template<
    typename C
, typename T1

struct eval_if
   : if_<C,T1,T2>::type
{ }

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_<Add
        , typename add_const<T>::type
        , T
        >::type type;
};

// boost::alignment_of yields to 10K lines of preprocessed code, so we
// need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     
    template <typename T, typename DefaultType>                    
    struct boost_intrusive_default_type_ ## TNAME                  
    {                                                              
      template <typename X>                                       


static char test(int, typename X::TNAME*);     \

//

template <typename X>                               \
static int test(...);                              \

struct DefaultWrap { typedef_DefaultType TNAME; };   \
static const bool value = (1 == sizeof(test<T>(0, 0)));  \

typedef typename                                        \
   ::boost::intrusive::detail::if_c                  \
   <value, T, DefaultWrap::type::TNAME type;         \
};                                                     \

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)  \
   typename INSTANTIATION_NS_PREFIX                                                    \
   boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                             \

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)                     
template <typename T, typename DefaultType>                             
struct boost_intrusive_eval_default_type_ ## TNAME                        
{                                                                     
    template <typename X>                                             
    static char test(int, typename X::TNAME*);                        

    template <typename X>                                             
    static int test(...);                                            

    struct DefaultWrap                                            
    { typedef typename DefaultType::type TNAME; };                   

    static const bool value = (1 == sizeof(test<T>(0, 0)));          

    typedef typename                                                     
        ::boost::intrusive::detail::eval_if_c                         
        < value                                                   
        , ::boost::intrusive::detail::identity<T>                     
        , ::boost::intrusive::detail::identity<DefaultWrap>          
        >::type::TNAME type;                                        
};                                                                    

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)  
   typename INSTANTIATION_NS_PREFIX                                               

```cpp
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) 
template <class T>
struct TRAITS_PREFIX##bool
{
    template<bool Add>
    struct two_or_three {one _[2 + Add];};
    template <class U> static one test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
};

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
template <typename U, typename Signature> 
class TRAITS_NAME 
{ 
    private: 
    template<Signature> struct helper;
    template<typename T> 
    static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);
    template<typename T> static ::boost::intrusive::detail::no_type check(...);
    public: 
    static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
};

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
template <typename Type> 
class TRAITS_NAME 
{ 
    struct BaseMixin 
    { 
        void FUNC_NAME(); 
    };
    struct Base : public Type, public BaseMixin { Base(); };
    template <typename T, T t> class Helper{}; 
    template <typename U>
```
static ::boost::intrusive::detail::no_type check(U*, Helper<void(BaseMixin::*)(), &U::FUNC_NAME>* = 0); \nstatic ::boost::intrusive::detail::yes_type check(...); \nstatic const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); \n}

//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \n\ntemplate <typename Type, class> 
struct TRAITS_NAME\n    : public TRAITS_NAME##_ignore_signature<Type> \n{};

//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        static_cast<void*>(
            reinterpret_cast<const char&>(obj))
    );
}

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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// http://www.boost.org/LICENSE_1_0.txt)
//
//

///////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>

#include <cstdint>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

template< unsigned V_ >
struct unsigned_ : integral_constant<unsigned, V_>
{
    static const unsigned value = V_;
    operator unsigned() const { return unsigned_::value; }
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;

} // namespace container_detail
} // namespace container
} // namespace boost

#include <boost/container/detail/config_end.hpp>
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif
template<
  bool C
 , typename T1
 , typename T2
>
struct if_<
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
 , typename T2
 , typename T3
>
struct if_
{
  typedef typename if_<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
  typedef Pair argument_type;
  typedef typename Pair::first_type result_type;

  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
typedef T  argument_type;
typedef T  result_type;

typedef T type;
const T& operator()(const T& x) const
{ return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////
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// Distributed under the Boost Software License, Version 1.0.
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_> 
struct bool_: integral_constant<bool, C_>
{
  static const bool value = C_; 
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

} } 

} #ifdef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#endif
#endif
#endif
ndefine BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif
#include <cstdint>

// See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt
//
//
//////////////////////////////////////////////////////////////////////////////
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
     typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{  
    typedef T2 type;
};

template<
     typename T1
>

```cpp
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
```
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--- end ---
All the value based traits in this library conform to MPL's requirements for an `Integral Constant` type that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code>true_type</code>` inherits from `<code>boost</code>` and `<code>false_type</code>` inherits from `<code>false_</code>`, and `<code>integral_constant</code>` inherits from `<code>integral_c</code>` (provided `<code>T</code>` is not `<code>bool</code>`). 


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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

[endsect]

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic
def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')
def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
alldates = map(itemgetter(1), au)
aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
for author, records in groupby(aup, itemgetter(0)):
    dates = filter(None, map(itemgetter(1), records))
    if not dates: dates = alldates
    start = min(dates)
    end = max(dates)
    fmt = '{0}' if start.year == end.year else '{0}-{1}'
    line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
    key = (start, author)
    yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^\W*\((c\)?\)\s*copyright\s*\((c\)?\)?\s*\d{4}(\s*\-\s*\d{4})?\s*\(\s*\?\P<name>.+?\s*\)', line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)
            names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
yield filename

for f in all_files():
    fix_copyright(f)
<?xml version="1.0" encoding="utf-8"?>

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
  <imagedata align="left" 
    format="GIF"
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//
*******************************************************************************

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
> struct if_c
{
typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;   }
};

template<std::size_t S>
struct ls_zeros
{
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
;

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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// //////////////////////////////////////////////////////////////////////////
#endif   //#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#pragma once

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {

}  //namespace boost {

#endif   //#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

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// //////////////////////////////////////////////////////////////////////////

#ifdef BOOST_HEADER_GUARD_INCLUDED
#endif   //#ifdef BOOST_HEADER_GUARD_INCLUDED

#include <boost/intrusive/detail/config_end.hpp>

}  //namespace boost
namespace intrusive {
namespace detail {

template <typename T, typename U>
struct is_same
{
    static const bool value = false;
};

template <typename T>
struct is_same<T, T>
{
    static const bool value = true;
};

template <typename T>
struct add_const
{
    typedef const T type;
};

template <typename T>
struct remove_const
{
    typedef T type;
};

template <typename T>
struct remove_const<const T>
{
    typedef T type;
};

template <typename T>
struct remove_cv
{
    typedef T type;
};

template <typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template <typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template <typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template <class T>
struct remove_reference
{
    typedef T type;
};
template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class T>
struct remove_pointer
{
  typedef T type;
};

template<class T>
struct remove_pointer<T*>(
{
  typedef T type;
};

template<class T>
struct add_pointer
{
  typedef T *type;
};
typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
  static const bool value = C_;
};

template< class Integer, Integer Value >
struct integer
{
  static const Integer value = Value;
};
typedef bool_<true>       true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply {
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)
    template <class T, class U>
    struct is_convertible {
        static const bool value = __is_convertible_to(T, U);
    };
#else
    template <class T, class U>
    class is_convertible {
        typedef char true_t;
        class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC
        //overaligned types can't go through ellipsis
        static false_t dispatch(...);
        static true_t dispatch(U);
        static typename remove_reference<T>::type &trigger();
        public:
            static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
    };
#endif

template<
bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
, typename T1
, typename T2
>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
, typename F1
, typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{
};

template<
    typename C
, typename T1
, typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
            , typename add_const<T>::type
            , T
        >::type type;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
```cpp
{  
   empty_helper_t1();  
   int i[256];  
};  

struct empty_helper_t2  
{  
   int i[256];  
};  

public:  
   static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);  
};  

template<std::size_t S>  
struct ls_zeros  
{  
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);  
};  

template<>  
struct ls_zeros<0>  
{  
   static const std::size_t value = 0;  
};  

template<>  
struct ls_zeros<1>  
{  
   static const std::size_t value = 0;  
};  

template <typename T> struct unvoid_ref { typedef T &type; };  
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };  
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type Impl & type; };  

// Infrastructure for providing a default type for T::TNAME if absent.  
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TPL(TNAME) \  
   template <typename T, typename DefaultType> \  
   struct boost_intrusive_default_type_##TNAME \  
   {  
      \  
      template <typename X> \  
      static char test(int, typename X::TNAME*); \  
      \  
      template <typename X> \  
      static int test(...); \  
      \  
      struct DefaultWrap { typedef DefaultType TNAME; }; \  
      \  
      static const bool value = (1 == sizeof(test<T>(0, 0))); \  
```
typedef typename
    ::boost::intrusive::detail::if_c
    <value, T, DefaultWrap>::type::TNAME type;
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_default_type_## TNAME<T, TIMPL>::type
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
    template <typename T, typename DefaultType>
    struct boost_intrusive_eval_default_type_## TNAME
    {
        template <typename X>
        static char test(int, typename X::TNAME*);
        
        template <typename X>
        static int test(...);
        
        struct DefaultWrap
        {
            typedef typename DefaultType::type TNAME;
        };
        
        static const bool value = (1 == sizeof(test<T>(0, 0)));
        
        typedef typename
            ::boost::intrusive::detail::eval_if_c
            < value
                , ::boost::intrusive::detail::identity<T>
                , ::boost::intrusive::detail::identity<DefaultWrap>
                >::type::TNAME type;
    };
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_eval_default_type_## TNAME<T, TIMPL>::type
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) 
    template <class T>
    struct TRAITS_PREFIX##_bool
    {
    //
template<bool Add> inline
struct two_or_three {one [2 + Add];};

template <class U> static one test(...);
template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
static const std::size_t value = sizeof(test<T>(0));

struct TRAITS_PREFIX##_bool_is_true
{
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
};

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
  template <typename U, typename Signature> 
  class TRAITS_NAME 
  {
    private:
    template<typename T>
    static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*, ...);
    template<typename T> static ::boost::intrusive::detail::no_type check(...);
    public:
    static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
  };

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
  template <typename Type> 
  struct TRAITS_NAME 
  {
    struct BaseMixin 
    {
      void FUNC_NAME();
    };
    struct Base : public Type, public BaseMixin { Base(); };
    template<typename T, T t> class Helper{}
    template <typename U> 
    static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);
    static ::boost::intrusive::detail::yes_type check(...);
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0)));
  };

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

//

template <typename Type, class>
struct TRAITS_NAME
    : public TRAITS_NAME##_ignore_signature<Type>
{
};

//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        static_cast<void*>(
            const_cast<char*>(
                reinterpret_cast<const char&>(obj)
            )
        )
    );
}

} // namespace intrusive
} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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]

[section:mpl MPL Interoperability]
All the value based traits in this library conform to MPL's requirements for an Integral Constant type; that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code.  Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code.  Al Dosser provided Alpha/OSF/1 code.  He and
Dave Detlesfs(detlesfs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agic@ats.umdahl.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.)
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.78.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"<tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../doc/src/images/boost.png"></td>
<td valign="center"><a href="../index.html" title="Home">Home</a></td>
<td valign="center"><a href="../../../libs/libraries.html" title="Libraries">Libraries</a></td>
<td valign="center"><a href="http://www.boost.org/users/faq.html" title="FAQ">FAQ</a></td>
<td valign="center"><a href="../../../more/index.html" title="More">More</a></td>
</tr></table>
<hr>
<dir class="spirit-nav">
<a accesskey="p" href="intrinsics.html"><img src="../../../doc/src/images/prev.png" alt="Prev"></a>
<a accesskey="u" href="../index.html"><img src="../../../doc/src/images/up.png" alt="Up"></a>
<a accesskey="h" href="../index.html"><img src="../../../doc/src/images/home.png" alt="Home"></a>
<a accesskey="n" href="examples.html"><img src="../../../doc/src/images/next.png" alt="Next"></a>
</dir>
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">true_</a>`, `<code class="computeroutput">false_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">false_</a>`, and `<code class="computeroutput">integral_constant<T,v></code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="top">integral_c</a>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`).
def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return f()
def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>W*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s*\-\s*\d{4})?\s*+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print prefix + repl
            else:
                print line,

    def all_files():
        ls = run(['git', 'ls-files'], universal_newlines=True)
        for filename in ls.splitlines():
            if magic.from_file(filename, mime=True).split('/')[0] == 'text':
                yield filename

        for f in all_files():
            fix_copyright(f)

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Jeff Garland

Boost.Geometry (aka GGL, Generic Geometry Library)

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Maybe this should pass?

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 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}}

private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "">"" << p.file.string() << ""</a>";
}
std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();

  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += ", " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }
  os <<
  "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">
  "<html>
  "<head>
  "<title>Boost Licence Dependency Information";
  if(m_module_list.size() == 1)
  {
    os << " for " << *(m_module_list.begin());
  }
  os <<
  "</title>
  "</head>
  "<body>
  "<H1>Boost Licence Dependency Information";
  if(m_module_list.size() == 1)
Open Source Used In Ultra Services Platform Version 6.10

{{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1><n" 
"<H2>Contents<h2>\n" 
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
os << " <a href="#summary">Licence Summary</a>\n"; 
os << " <a href="#details">Licence Details</a>\n";

while(i != j)
{
    // title:
os << " <A href="#" << make_link_target(licenses.first[i->first].license_name)
    << "]" << licenses.first[i->first].license_name << "]\n";
    ++i;
}

os << " <a href="#files">Files with no recognised license</a>\n" 
" <a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...\n" 
" <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n" 
" <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n" 
" <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>\n" 
" <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n" 
" <a href="#copyright">Copyright Holder Information</a>\n";
}

os <<
" <a href="#depend">File Dependency Information</a>\n" 
"</pre>";


// input Information:

// os << " <a name="input"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
os << " <P>The following files were scanned for boost dependencies:<BR>\n";
else
os << " <P>The following Boost modules were checked:<BR>\n";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>");
++si;
}

os << "</p>&p>" The Boost path was: &code; &code; << m_boost_path.string() << "</code>&p>");

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
   "^[[:blank:]]*=#:[:blank:]:[^[:blank:]]+BOOT_VERSION[[:blank:]]+=(\d+)+\n+\";\n+
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
   int version = boost::lexical_cast<int>(what.str(1));
   os << "<p>" The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
   // start with the summary:
   //
   os << "<a name="summary">
<h2>Licence Summary</h2>
   while(i != j)
   {
      // title:
      os << "<H2>" << licenses.first[i->first].license_name << "</H2>\n";
         // license text:
     os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
         // Copyright holders:
     os << "<P>"This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files</a>(see details)</a>"
   os << "</P>"<BLOCKQUOTE>\n";
++i;
}

//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details\n"</a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os <<
        "<H3><A name="""" << make_link_target(licenses.first[i->first].license_name)
        """"</a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:"<<</P>\n";
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:"<<</P>\n";
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
    } else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity)."<<</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity)."<<</P>\n";
    }
    ++license_index;
++i;
}
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><br>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:
</p><BLOCKQUOTE><p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><br>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:
</p><BLOCKQUOTE><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><br>
"<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:
</p><BLOCKQUOTE><p>
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin();
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</P>
<BLOCKQUOTE><P>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</P>
<BLOCKQUOTE><P>
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:</P>
<BLOCKQUOTE><P>
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
             std::ostream_iterator<std::string>(os, "<br>"));
    os << "</p></BLOCKQUOTE>
"
// output a table of copyright information:
//
// os << "<H2><a name="copyright">" <a>Copyright Holder Information</a></H2><table border="1""\n"; std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ed = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " </td>");
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}

// output file dependency information:
//
// os << "<H2><a name="depend">" <a>File Dependency Information</a></H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
for brevity, only files not under the BSL are shown

while (fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "
    ++fi;
}

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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/+/\ 
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This is Release 2.4 of Jam/MR, a make-like program.

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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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agr@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@grkouche.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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#endif BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifdef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/config.hpp>
#endif

#ifdef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

template<typename T, typename U>
struct is_same
{
  static const bool value = false;
};

template<typename T>
struct is_same<T, T>
{
  static const bool value = true;
};

template<typename T>
struct add_const
{
  typedef const T type;
};

template<typename T>
struct remove_const
{
  typedef T type;
};

template<typename T>
struct remove_const<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv
{
  typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
  typedef T type;
};
template< typename T >
struct remove_cv< volatile T >
{  typedef T type;  };

template< class T >
struct remove_reference
{
  typedef T type;
};

template< class T >
struct remove_reference< T& >
{
  typedef T type;
};

template< class T >
struct remove_pointer
{
  typedef T type;
};

template< class T >
struct remove_pointer< T* >
{
  typedef T type;
};

template< class T >
struct add_pointer
{
  typedef T *type;
};

typedef char one;
struct two { one _[2]; };

template< bool C_ >
struct bool_
{
  static const bool value = C_; 
};

template< class Integer, Integer Value >
struct integer
{
  static const Integer value = Value;
};
typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 
template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};
#if defined(_MSC_VER) && (_MSC_VER >= 1400)
template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
};
static true_t dispatch(U);
static typename remove_reference<T>::type &trigger();
public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

#endif

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{
};

template<
    typename C
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
            , typename add_const<T>::type
            , T
        >::type type;
};

// boost::alignment_of yields to 10K lines of preprocessed code, so we
// need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T, typename_DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {                                                              \


template <typename X> static char test(int, typename X::TNAME*);

template <typename X> static int test(...);

struct DefaultWrap { typedef DefaultType TNAME; };

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename
::boost::intrusive::detail::if_c
    <value, T, DefaultWrap::type::TNAME type;>
    ;

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type

//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_eval_default_type_ ## TNAME { \
    
    template <typename X> static char test(int, typename X::TNAME*);
    
    template <typename X> static int test(...);
    
    struct DefaultWrap { typedef typename DefaultType::type TNAME; }; 
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));
    
    typedef typename 
    ::boost::intrusive::detail::eval_if_c \
        < value, ::boost::intrusive::detail::identity<T>, \
        ::boost::intrusive::detail::identity<DefaultWrap> >::type::TNAME type; 
    
    };

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \

typedef INSTANTIATION_NS_PREFIX
  boost_intrusive_eval_default_type_## TNAME< T, TIMPL >::type

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
  TYPEDEF_TO_FIND)

struct TRAITS_PREFIX##_bool
{
  
  template<bool Add>
  struct two_or_three {one _[2 + Add];};
  
  template <class U> static one test(...);

  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

  static const std::size_t value = sizeof(test<T>(0));
}

//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
  FUNC_NAME)

class TRAITS_NAME
{
  
  private:
  
  template<Signature> struct helper;

  template<type_name T>
  static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);

  public:
  
  static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);

}:

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)

struct TRAITS_NAME
{
  struct BaseMixin
  {
    void FUNC_NAME();
  }

  struct Base : public Type, public BaseMixin { Base(); };

  template <typename T, T t> class Helper;
}
template <typename U> \
static ::boost::intrusive::detail::no_type check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
static ::boost::intrusive::detail::yes_type check(...); \
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); \
};
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ 
//
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> 
{ }; \
//

template <typename T> 
inline T* addressof(T& obj) 
{
  return static_cast<T*>(
    static_cast<void*>(
      reinterpret_cast<const char&>(obj))
  );
}
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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//
//

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>

namespace boost {
  namespace container {
    namespace container_detail {

      template <class T, T val>
      struct integral_constant {
        static const T value = val;
        typedef integral_constant<T,val> type;
      };

      template< bool C_ >
      struct bool_ : integral_constant<bool, C_>
      {
        static const bool value = C_;
        operator bool() const { return bool_::value; }
      };

      template< unsigned V_ >
      struct unsigned_ : integral_constant<unsigned, V_>
      {
        static const unsigned value = V_;
        operator unsigned() const { return unsigned_::value; }
      };

      typedef bool_<true>        true_;
      typedef bool_<false>       false_;
      typedef true_  true_type;
      typedef false_ false_type;

    } // namespace container_detail
  } // namespace container
} // namespace boost

#include <boost/container/detail/config_end.hpp>
typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)
template <class T, class U>
struct is_convertible
{
  static const bool value = __is_convertible_to(T, U);
};
#else
template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  //use any_conversion as first parameter since in MSVC
  //overaligned types can't go through ellipsis
  static false_t dispatch(...);
  static true_t dispatch(U);
  static T &trigger();
  public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif
template<
    bool C,
    , typename T1,
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    , typename T1,
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    , typename T1,
    , typename T2,
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

// identity is an extension: it is not part of the standard.

template <class T>
struct identity
typedef T argument_type;
typedef T result_type;

typedef T type;
const T& operator()(const T& x) const
{
    return x;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
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//
//
///////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
#
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_;
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;
    typedef true_  true_type;
    typedef false_ false_type;

    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

}}}
#endif //BOOST_INTERPROCESS_DETAIL_MPL_HPP

#pragma pack(push, 1)
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
 >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
typedef typename T1
 , typename T2
 , typename T3
 >
 struct if_
 {
     typedef typename if_c<0 != T1::value, T2, T3>::type type;
 };

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<st::size_t S>
struct ls_zeros
{
    static const st::size_t value = (S & st::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const st::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const st::size_t value = 0;
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All the value based traits in this library conform to MPL’s requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `bool`, `false_type` inherits from `bool`, and `integral_constant<T, v>` inherits from `integral_c` (provided `T` is not `bool`).
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that '__true_type' inherits from [`.true_`], '__false_type' inherits from [`.false_`], and '__integral_constant<T, v>' inherits from [`.integral_c<T,v>`] (provided 'T' is not `bool`)

```python
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        return
```

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au = list(authors(filename))
alldates = map(itemgetter(1), au)
aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
for author, records in groupby(aup, itemgetter(0)):
    dates = filter(None, map(itemgetter(1), records))
    if not dates: dates = alldates
    start = min(dates)
    end = max(dates)
    fmt = '{0}' if start.year == end.year else '{0}-{1}'
    line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
    key = (start, author)
    yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(?P<name>.*?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
        pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        print filename
        new = iter(new_copyright(filename, names))
if magic.from_file(filename, mime=True).split('/')[0] == 'text':
    yield filename

for f in all_files():
    fix_copyright(f)

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Boost.Geometry (aka GGL, Generic Geometry Library)

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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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1.144 libbsf-java 1:2.4.0 :5build1

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It was extracted, "ant clean" was called and repackaged.

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Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid

Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
    transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) 
    && !defined _DEFAULT_SOURCE
+    /* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+       and we don't have time to check/fix everything before vivid release
+    # warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+    */
+    # undef _DEFAULT_SOURCE
+    # define _DEFAULT_SOURCE1
#endif

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Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid
Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
  transitioned to use the new macro. */
  #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \\
  &!defined _DEFAULT_SOURCE 
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror 
+ and we don't have time to check/fix everything before vivid release 
+ warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE" 
+*/
+ # undef _DEFAULT_SOURCE
+ # define _DEFAULT_SOURCE1
+endif
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1.147 libc-dev-bin 2.23 :0ubuntu11

1.147.1 Available under license:

This file describes how to make a threaded X11R6.

You need the source-code of XFree-3.2. I used the sources of X11R6.1 (files: xc-1.tar.gz xc-2.tar.gz xc-3.tar.gz) and the patches to XFree-3.2 (files: README.X11.patch R6.1pl1-3.2.diff.gz cfont32.tgz).

Untar the xc-?.tar.gz files in a directory called XF3.2 and apply the XFree-3.2 patches as described in README.X11.patch or use the whole XFree86 source.

Now apply the thread patch with

patch -p0 < XF3.2.xc.diff

Go to the XF3.2/xc directory and make the whole thing:

nice make World >& world.log &
tail -f world.log

Wait a few hours or interrupt the process after the shared libs are made. The shared libs are:

XF3.2/xc/lib/ICE/libICE.so.6.0*
XF3.2/xc/lib/PEX5/libPEX5.so.6.0*
XF3.2/xc/lib/SM/libSM.so.6.0*
XF3.2/xc/lib/X11/libX11.so.6.1*
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(The Program dga didn't compile, but I have not check out why.)

Now you can copy the resulting libs

cp XF3.2/lib/*/lib*/* .so.?.? /usr/X11R6/lib/

and create some links

cd /usr/X11R6/lib/
l s libXThrStub.so.6.0 libXThrStub.so.6
ln -s libXThrStub.so.6 libXThrStub.so

or use make install (not tested, and needs new configuration).

It is possible with the libXThrSub to compile X11 programs without linking libpthread to them and not necessary to recompile already installed unthreaded X11 programs, because libXThrSub keeps the dynamic linker quit.

On the other hand you can link libpthread to a X11 program to use threads.

I used linux 2.0.23 and libc 5.4.7.

Hans-Helmut B"hmann hans@expmech.ing.tu-bs.de

XF3.2.xc.diff:

--- XF3.2.orig/xc/config/cf/linux.cf Sun Nov 10 17:05:30 1996
+++ XF3.2/xc/config/cf/linux.cf Sun Nov 10 16:30:55 1996
@@ -61,6 +61,14 @@
 #define HasSnprintf YES
 Endif

+define HasPosixThreads YES
+define ThreadedX YES
+define BuildThreadStubLibrary YES
+define NeedUIThrStubs YES
+define HasThreadSafeAPI NO
+define SystemMTDefines  -D_REENTRANT
+define ThreadsLibraries  -lpthread
+
#define AvoidNullMakeCommand YES
#define StripInstalledPrograms YES
#define CompressAllFonts YES
@@ -158,7 +166,7 @@
#define LdPostLib /* Never needed */

#ifdef i386Architecture
-#define OptimizedCDebugFlags DefaultGcc2i386Opt -m486
+#define OptimizedCDebugFlags DefaultGcc2i386Opt -m486 -pipe
#define StandardDefines -Dlinux -D__i386__ -D_POSIX_SOURCE \ 
-D_BSD_SOURCE -D_SVID_SOURCE -DX_LOCALE
#define XawI18nDefines -DUSE_XWCHAR_STRING -DUSE_XMBTOWC
diff -u --recursive XF3.2.orig/xc/config/cf/lnxLib.tmpl XF3.2/xc/config/cf/lnxLib.tmpl
--- XF3.2.orig/xc/config/cf/lnxLib.tmpl Sun Nov 10 17:05:30 1996
+++ XF3.2/xc/config/cf/lnxLib.tmpl Sat Nov 9 14:52:39 1996
@@ -19,7 +19,7 @@
-#define SharedX11Reqs
+#define SharedX11Reqs  -L$(BUILDLIBDIR) -lXThrStub
#define SharedOldXReqs $LDPRELIB $(XLIBONLY)
#define SharedXtReqs $LDPRELIB $(SMLIB) $(ICELIB)
#define SharedXawReqs $LDPRELIB $(XMULIB) $(XTOOLLIB) $(XLIB)
diff -u --recursive XF3.2.orig/xc/include/Xthreads.h XF3.2/xc/include/Xthreads.h
--- XF3.2.orig/xc/include/Xthreads.h Thu Dec  7 02:19:09 1995
+++ XF3.2/xc/include/Xthreads.h Sat Nov 9 01:04:55 1996
@@ -229,12 +229,12 @@
 #define xcondition_wait(c,m) pthread_cond_wait(c,m)
 #define xcondition_signal(c) pthread_cond_signal(c)
 #define xcondition_broadcast(c) pthread_cond_broadcast(c)
-#ifdef _DECTHREADS_
+#ifdef _DECTHREADS_ || defined(linux)
     static xthread_t _X_no_thread_id;
     #define xthread_have_id(id) !pthread_equal(id, _X_no_thread_id)
     #define xthread_clear_id(id) id = _X_no_thread_id
     #define xthread_equal(id1,id2) pthread_equal(id1, id2)
-#endif /* _DECTHREADS_ */
+/* _DECTHREADS_ */
+#ifdef linux /
      #if _CMA_VENDOR_ == _CMA__IBM
"/
      #ifndef DEBUG/* too much of a hack to enable normally */
      /* see also cma__obj_set_name() */
      diff -u --recursive XF3.2.orig/xc/lib/X11/util/makekeys.c XF3.2/xc/lib/X11/util/makekeys.c
+++ XF3.2/xc/lib/X11/util/makekeys.cSat Nov 9 00:44:14 1996

Open Source Used In Ultra Services Platform Version 6.10
register char c;
int first;
int best_max_rehash;
-    int best_z;
+    int best_z = 0;
    int num_found;
    KeySym val;

diff -u --recursive XF3.2.orig/xc/lib/XThrStub/Imakefile XF3.2/xc/lib/XThrStub/Imakefile
--- XF3.2.orig/xc/lib/XThrStub/Imakefile Sun Nov 10 17:08:12 1996
+++ XF3.2/xc/lib/XThrStub/ImakefileSat Nov 9 19:04:51 1996
@@ -25,7 +25,7 @@
    DEFINES = $(ALLOC_DEFINES)
    INCLUDES =
        SRCS = $(STUBSRCS)
-         OBJS = $(STUBOBJS
+         OBJS = $(STUBOBJS)
        LINTLIBS = $(LINTXLIB)

#include <Library.tmpl>

diff -u --recursive XF3.2.orig/xc/lib/XThrStub/UIThrStubs.c XF3.2/xc/lib/XThrStub/UIThrStubs.c
--- XF3.2.orig/xc/lib/XThrStub/UIThrStubs.c Sun Nov 10 17:08:12 1996
+++ XF3.2/xc/lib/XThrStub/UIThrStubs.c Sun Nov 10 15:14:55 1996
@@ -37,16 +37,43 @@
* specificies the thread library on the link line.
*/
+
+    +static pthread_t no_thread_id;
+    +#endif /* defined(linux) */
+    +
+    +#if defined(linux)
+    +#pragma weak pthread_self = _Xthr_self_stub_
+    +pthread_t
+    +_Xthr_self_stub_()
+    +{
+        return(no_thread_id);
+    +}
+    +#else /* defined(linux) */
+    +#pragma weak thr_self = _Xthr_self_stub_
thread_t
_Xthr_self_stub_()
{
    return((thread_t)0);
}
#endif /* defined(linux) */

#if defined(linux)
#pragma weak pthread_mutex_init = _Xmutex_init_stub_
int
_Xmutex_init_stub_(m, a)
    pthread_mutex_t *m;
    __const pthread_mutexattr_t *a;
{
    return(0);
}
#else /* defined(linux) */
#pragma weak mutex_init = _Xmutex_init_stub_
int
_Xmutex_init_stub_(m, t, a)
@@ -56,7 +83,17 @@
{
    return(0);
}
#endif /* defined(linux) */

#if defined(linux)
#pragma weak pthread_mutex_destroy = _Xmutex_destroy_stub_
int
_Xmutex_destroy_stub_(m)
    pthread_mutex_t *m;
{
    return(0);
}
#else /* defined(linux) */
#pragma weak mutex_destroy = _Xmutex_destroy_stub_
int
_Xmutex_destroy_stub_(m)
@@ -64,7 +101,17 @@
{
    return(0);
}
#endif /* defined(linux) */

#if defined(linux)
#pragma weak pthread_mutex_lock = _Xmutex_lock_stub_
int
_Xmutex_lock_stub_(m)
+ pthread_mutex_t *m;
+{
+  return(0);
+}
+#else /* defined(linux) */
#pragma weak mutex_lock = _Xmutex_lock_stub_
int _Xmutex_lock_stub_(m)
@@ -72,7 +119,17 @@
{  
    return(0);
  }
+#endif /* defined(linux) */

+if defined(linux)
+#pragma weak pthread_mutex_unlock = _Xmutex_unlock_stub_
+int +_Xmutex_unlock_stub_(m)  
+  pthread_mutex_t *m; 
+{
+    return(0);
+}
+#else /* defined(linux) */
#pragma weak mutex_unlock = _Xmutex_unlock_stub_
int _Xmutex_unlock_stub_(m)
@@ -80,7 +137,18 @@
{
    return(0);
  }
+#endif /* defined(linux) */

+if defined(linux)
+#pragma weak pthread_cond_init = _Xcond_init_stub_
+int +_Xcond_init_stub_(c, a)  
+    pthread_cond_t *c; 
+    __const pthread_condattr_t *a; 
+{
+    return(0);
+}
+#else /* defined(linux) */
#pragma weak cond_init = _Xcond_init_stub_
int _Xcond_init_stub_(c, t, a)
@@ -90,7 +158,17 @@
{
    return(0);
} /* defined(linux) */

#endif /* defined(linux) */

if defined(linux)
#pragma weak pthread_cond_destroy = _Xcond_destroy_stub_
int
_Xcond_destroy_stub_(c)
+ pthread_cond_t *c;
+
+ return(0);
+
#else /* defined(linux) */
#pragma weak cond_destroy = _Xcond_destroy_stub_
int
_Xcond_destroy_stub_(c)
@@ -98,7 +176,18 @@
{
    return(0);
}
#endif /* defined(linux) */

#if defined(linux)
#pragma weak pthread_cond_wait = _Xcond_wait_stub_
int
_Xcond_wait_stub_(c,m)
+ pthread_cond_t *c;
+ pthread_mutex_t *m;
+
+ return(0);
+
#else /* defined(linux) */
#pragma weak cond_wait = _Xcond_wait_stub_
int
_Xcond_wait_stub_(c,m)
@@ -107,7 +196,17 @@
{
    return(0);
}
#endif /* defined(linux) */

#if defined(linux)
#pragma weak pthread_cond_signal = _Xcond_signal_stub_
int
_Xcond_signal_stub_(c)
+ pthread_cond_t *c;
+
+ return(0);
+
}
README.Debian for libc-prof
---------------------------
gprof is the GNU Profiler, a tool used when tracking which functions are eating CPU in your program. Anyway, you should already be familiar with it if you got interested by this package.

This package provides a version of the GNU Libc compiled for profiling in order to get profiling information from standard library functions
such as malloc, read or open.

In order to use it, you have to use `-static-libgcc -lc_p' in addition to the normal `-pg'. `-static-libgcc' is needed to ensure that libgcc does not pull the dynamic version of the GNU Libc.

For instance here is how to compile and link myprog.c with profiling:

gcc -g -pg -o myprog.o -c myprog.c

gcc -pg -o myprog myprog.o -static-libgcc -lc_p

This also works with a command that both compiles and links:

gcc -g -pg -o myprog myprog.c -static-libgcc -lc_p

-- Aurelien Jarno <aurel32@debian.org>  Sun, 06 Apr 2008 11:28:25 +0200
This is the Debian prepackaged version of the GNU C Library version 2.23.

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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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Q1: Why does the Debian libc6-dev package create /usr/include/linux and /usr/include/asm directories containing header files from a specific kernel, instead of using the "established" convention of making those directories into symlinks pointing to the currently installed kernel?

A1: Occasionally, changes in the kernel headers cause problems with the compilation of libc and of programs that use libc. To ensure that users are not affected by these problems, we configure libc to use the headers from a kernel that is known to work with libc and the programs that depend on stable kernel headers.

[Note: /usr/include/linux is now in the linux-libc-dev package.]

Q2: What if I want to compile a program that needs a feature from a later kernel than is used by libc?

A2: In practice, most programs will not have this problem. However,
depending on the scope of the problem you have several options available:

If the situation is one like "kernel driver development", where all use of the machine for development is expected to be against a different set of kernel headers than are supplied with the "stock" libc6-dev, rebuilding the glibc packages against that particular kernel will create a full set of libc6 packages that are "compliant" with the new kernel. All development done on machines with these packages installed will be done against the new kernel. To build libc6-dev against your particular kernel, export the environment variable LINUX_SOURCE, set to the path to that particular kernel source directory and then build the package.

If you want this new glibc package to stick against further upgrades, simply use dselect and place the packages on HOLD. This will keep them from being upgraded against your wishes.

If there is just one particular program/package that needs different headers, and your kernel of choice is installed in the usual place, you can use the -I/usr/src/linux/include option on the gcc command line, when compiling that specific program.

Q3: My program is trying to use a kernel header that is in libc-dev, and it is causing problems. (or) Why are the kernel headers not the same for all architectures in Debian, for a given version of libc-dev?

A3: For starters, you should never use kernel headers directly from user space programs. You cannot be guaranteed a consistent interface across different versions of the kernel, much less across architectures (even for the same version of kernel source).

Kernel headers are included with libc-dev _only_ to support those headers in libc-dev. They are not there for userspace programs to include. If you need kernel headers, then use one of the provided kernel-headers-x.x.x packages provided for each architectures, or include the kernel headers (or just the parts of the headers) you need directly in your source for compilation. Only this way can you ensure a consistent state.

Q4: Why does Debian's glibc seem to follow the stable CVS branch?

A4: During our development cycle we follow the stable CVS branch so that we can cause as little disruption as possible, and catch problems easier. Differences between minor releases of glibc are known to be very large, contain many changes, and generally affect all architectures differently. We sync frequently with CVS so that we can take this large amount of changes in smaller chunks, simplifying the process, and allowing us to communicate problems to upstream much easier.

Q5: How to setup my own language/regional (locale) setting?
A5: Glibc provides "locale" defined in POSIX. Locale is a framework to switch between multiple languages for users who can select to use their language, country, characters, collation order, etc. For example, some program display messages in your own language, if you set the appropriate locale. Default locale is C (or POSIX) which behaves traditional Unix with ASCII message. For more information, look locale (5).

If you want to use your own locale, install "locales" package. With debconf interface, you can setup which locale is generated, and which locale is used in default on your machine.

Q6: I get this message when I run a program:
ld.so: Incorrectly built binary which accesses errno or h_errno directly.
ld.so: See /usr/share/doc/libc6/FAQ.gz.
A6:

The program is broken. It probably says "extern int errno" somewhere, instead of including <errno.h>. Erno in recent glibc versions is a macro, which calls the function __errno_location; when glibc is built with thread-local storage enabled, there is no extern int variable named errno. In addition, "extern int errno" is not thread-safe.

NOTE: Currently this error message is suppressed, for the benefit of some truly buggy programs which redirect stderr into something important, like a network socket.

Q7: I get this error when I compile an static linked application that's compiled with glibc 2.2 or before:
gcc -o foo.o libbar.a
libbar.a(obj.o): In function `func(char *)':
: undefined reference to `__ctype_toupper'

A7:
During glibc 2.3.x development, some symbols (__ctype_b, __ctype_toupper, __ctype_tolower) are changed to hidden attributes. This means old static linked applications/libraries built with glibc 2.2.x cannot be linked on glibc 2.3.x systems any more.

But it made a lot of user applications unusable, we applied a workaround patch for glibc in Sarge. Therefore your applications worked OK, and you didn't need to consider about this problem. However, most other distros already dropped such local modification. For that reason, we decided to drop supporting such old static linked applications/libraries from Etch, you need to recompile them.

If you want to keep this workaround that was applied in Sarge for the present,
please recompile Debian glibc package with adding "glibc23-ctype-compat" line at the end of debian/patches/00list, and install it on your local machine.
Note that we don't support this patch nowadays, please use it at your own risk.

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*******************************************************************************

Version 2, June 1991

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

Preamble
========

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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.

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locales
-------

* Starting with locales 2.7-3, users can provide their own locales in
addition to the ones provided by the package. They will be handled
as other locales in the various scripts.

Each user defined locale has to be provided as a single file and
placed in the /usr/local/share/i18n/locales/ directory. The list of
user defined locales should be placed, one by line, in the file
/usr/local/share/i18n/SUPPORTED. You can have a look to the locales
provided by the locales package in /usr/share/i18n/ for more details.

To enable the new locales, just run 'dpkg-reconfigure locales' and
select the new locales.

-- Aurelien Jarno <aurel32@debian.org>  Thu 29 Nov 2007 18:54:12 +0100
This directory contains the Embedded GNU C Library (EGLIBC).

EGLIBC is a variant of the GNU C Library (GLIBC) that is designed to
work well on embedded systems. EGLIBC strives to be source and binary
compatible with GLIBC. EGLIBC's goals include reduced footprint,
configurable components, better support for cross-compilation and
cross-testing. More information is available at

Files in this directory describe EGLIBC's features for embedded
developers:

- EGLIBC.cross-building provides general instructions for building
  EGLIBC and an accompanying compiler for cross-development. (And
  explains why this isn't as simple as 'configure; make'.)

- EGLIBC.option-groups explains EGLIBC's facilities for paring down
  the library functionality to the features you really need, to reduce
disk and memory consumption. (A one-line file disabling the
  OPTION_EGLIBC_LOCALES option reduces the on-disk footprint of EGLIBC
  by 92%.)

- EGLIBC.cross-testing explains how to test a cross-compiled EGLIBC.
Here is the original GLIBC README:

---

This directory contains the sources of the GNU C Library. See the file "version.h" for what release version you have.

The GNU C Library is the standard system C library for all GNU systems, and is an important part of what makes up a GNU system. It provides the system API for all programs written in C and C-compatible languages such as C++ and Objective C; the runtime facilities of other programming languages use the C library to access the underlying operating system.

In GNU/Linux systems, the C library works with the Linux kernel to implement the operating system behavior seen by user applications. In GNU/Hurd systems, it works with a microkernel and Hurd servers.

The GNU C Library implements much of the POSIX.1 functionality in the GNU/Hurd system, using configurations i[34567]86-*-gnu.

When working with Linux kernels, the GNU C Library version from version 2.4 on is intended primarily for use with Linux kernel version 2.6.0 and later. We only support using the NPTL implementation of pthreads, which is now the default configuration. Most of the C library will continue to work on older Linux kernels and many programs will not require a 2.6 kernel to run correctly. However, pthreads and related functionality will not work at all on old kernels and we do not recommend using glibc 2.4 with any Linux kernel prior to 2.6.

All Linux kernel versions prior to 2.6.16 are known to have some bugs that may cause some of the tests related to pthreads in "make check" to fail. If you see such problems, please try the test suite on the most recent Linux kernel version that you can use, before pursuing those bugs further.

Also note that the shared version of the libgcc_s library must be installed for the pthread library to work correctly.

The old LinuxThreads add-on implementation of pthreads for older Linux kernels is no longer supported, and we are not distributing it with this release. Someone has volunteered to revive its maintenance unofficially for at least a short time for the benefit of those using Linux kernels older than 2.6, but a working version is not presently available. When it is in working condition, we will make it available alongside future glibc releases. LinuxThreads will not be supported.

The GNU C Library supports these configurations for using Linux kernels:
The code for other CPU configurations supported by volunteers outside of the core glibc maintenance effort is contained in the separate ‘ports’ add-on. You can find glibc-ports-VERSION distributed separately in the same place where you got the main glibc distribution files. Currently these configurations are known to work using the ‘ports’ add-on:

- alpha-*-linux-gnu Requires Linux 2.6.9 for NPTL
- arm-*-linux-gnu Requires Linux 2.6.15 for NPTL, no SMP support
- arm-*-linux-gnueabi Requires Linux 2.6.16-rc1 for NPTL, no SMP
- mips-*-linux-gnu Requires Linux 2.6.12 for NPTL
- mips64-*-linux-gnu Requires Linux 2.6.12 for NPTL

The ports distribution also contains code for other configurations that do not work or have not been maintained recently, but will be of use to anyone trying to make a new configuration work. If you are interested in doing a port, please contact the glibc maintainers; see http://www.gnu.org/software/libc/ for more information.

See the file INSTALL to find out how to configure, build, and install the GNU C Library. You might also consider reading the WWW pages for the C library at http://www.gnu.org/software/libc/.

The GNU C Library is (almost) completely documented by the Texinfo manual found in the `manual/' subdirectory. The manual is still being updated and contains some known errors and omissions; we regret that we do not have the resources to work on the manual as much as we would like. For corrections to the manual, please file a bug in the ‘manual’ component, following the bug-reporting instructions below. Please be sure to check the manual in the current development sources to see if your problem has already been corrected.

The file NOTES contains a description of the feature-test macros used in the GNU C library, explaining how you can tell the library what facilities you want it to make available.

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The GNU C library contains an NSS module for the Hesiod name service. Hesiod is a general name service for a variety of applications and is based on the Berkeley Internet Name Daemon (BIND).

Introduction
============

The Hesiod NSS module implements access to all relevant standard Hesiod types, which means that Hesiod can be used for the `group', `passwd' and `services' databases. There is however a restriction. In the same way that it is impossible to use `gethostent()' to iterate over all the data provided by DNS, it is not possible to scan the entire Hesiod database by means of `getgrent()', `getpwent()' and `getservent()'. Besides, Hesiod only provides support for looking up services by name and not for looking them up by port. In essence this means that the Hesiod name service is only consulted as a result of one of the following function calls:

* getgrname(), getgrgid()
* getpwname(), getpwuid()
* getservbyname()

and their reentrant counterparts.

Configuring your systems
========================

Configuring your systems to make use the Hesiod name service requires one or more of the following steps, depending on whether you are already running Hesiod in your network.

Configuring NSS
---------------

First you should modify the file `/etc/nsswitch.conf' to tell NSS for which database you want to use the Hesiod name service. If you want to use Hesiod for all databases it can handle your configuration file could look like this:
# /etc/nsswitch.conf
#
# Example configuration of GNU Name Service Switch functionality.
#

passwd:  db files hesiod
group:  db files hesiod
shadow:  db files

hosts:  files dns
networks:  files dns

protocols:  db files
services:  db files hesiod
ethers:  db files
rpc:  db files

For more information on NSS, please refer to the `The GNU C Library Reference Manual'.

Configuring Hesiod
------------------

Next, you will have to configure Hesiod. If you are already running Hesiod in your network, you probably already have a file named `hesiod.conf' on your machines (probably as `/etc/hesiod.conf' or `/usr/local/etc/hesiod.conf'). The Hesiod NSS module looks for `hesiod.conf' by default. If there is no configuration file you will want to create your own. It should look something like:

rhs=.your.domain
lhs=.ns
classes=in,hs

The optional classes settings specifies which DNS classes Hesiod should do lookups in. Possible values are IN (the preferred class) and HS (the deprecated class, still used by some sites). You may specify both classes separated by a comma to try one class first and then the other if no entry is available in the first class. The default value of the classes variable is `IN,HS'.

The value of rhs can be overridden by the environment variable `HES_DOMAIN'.

Configuring your name servers
-------------------------------
In addition, if you are not already running Hesiod in your network, you need to create Hesiod information on your central name servers. You need to run `named` from BIND 4.9 or higher on these servers, and make them authoritative for the domain `ns.your.domain` with a line in `/etc/named.boot` reading something like:

```
primary ns.your.domain named.hesiod
```

or if you are using the new BIND 8.1 or higher add something to `/etc/named.conf` like:

```
zone "ns.your.domain" {
    type master;
    file "named.hesiod";
};
```

Then in the BIND working directory (usually `/var/named`) create the file `named.hesiod` containing data that looks something like:

```
; SOA and NS records.
@ IN SOA server1.your.domain admin-address.your.domain ( 40000 ; serial - database version number 1800 ; refresh - sec servers 300 ; retry - for refresh 3600000 ; expire - unrefreshed data 7200 ) ; min NS server1.your.domain NS server2.your.domain

; Actual Hesiod data.
libc.group TXT "libc:*:123:gnu,gnat"
123.gid CNAME libc.group
gnu.passwd TXT "gnu:*:4567:123:GNU:/home/gnu:/bin/bash"
456.uid CNAME mark.passwd
nss.service TXT "nss tcp 789 switch sw"
nss.service TXT "nss udp 789 switch sw"
```

where `libc` is an example of a group, `gnu` an example of a user, and `nss` an example of a service. Note that the format used to describe services differs from the format used in `/etc/services`.

For more information on `named` refer to the `Name Server Operations Guide for BIND` that is included in the BIND distribution.

Security

========
Note that the information stored in the Hesiod database in principle is publicly available. Care should be taken with including vulnerable information like encrypted passwords in the Hesiod database. There are some ways to improve security by using features provided by `named' (see the discussion about `secure zones' in the BIND documentation), but one should keep in mind that Hesiod was never intended to distribute passwords. In the original design authenticating users was the job of the Kerberos service.

More information
================

For more information on the Hesiod name service take a look at some of the papers in ftp://athena-dist.mit.edu/pub/ATHENA/usenix and the documentation that accompanies the source code for the Hesiod name service library in ftp://athena-dist.mit.edu/pub/ATHENA/hesiod.

There is a mailing list at MIT for Hesiod users, hesiod@mit.edu. To get yourself on or off the list, send mail to hesiod-request@mit.edu. The following functions for the `long double' versions of the libm function have to be written:

- e_acosl.c
- e_asinl.c
- e_atan2l.c
- e_expl.c
- e_fmodl.c
- e_hypotl.c
- e_jol.c
- e_jll.c
- e_jnl.c
- e_LgammaI_r.c
- e_logl.c
- e_log10l.c
- e_powl.c
- e_rem_pio2l.c
- e_sinhI.c
- e_sqrtl.c
- k_cosl.c
- k_rem_pio2l.c
- k_sinl.c
- k_tanl.c
- s_atanl.c
- s_erfl.c
- s_expm1l.c
s_log1pl.c

Methods

arcsin

Since \( \arcsin(x) = x + x^3/6 + x^5*5/40 + x^7*15/336 + ... \)
we approximate \( \arcsin(x) \) on \([0,0.5]\) by
\[
\arcsin(x) = x + x*x^2*R(x^2)
\]
where
\( R(x^2) \) is a rational approximation of \( (\arcsin(x)-x)/x^3 \)
and its remez error is bounded by
\[
|\frac{(\arcsin(x)-x)}{x^3} - R(x^2)| < 2^{(-58.75)}
\]

For \( x \) in \([0.5,1]\)
\[
\arcsin(x) = \pi/2 - 2*\arcsin(\sqrt{(1-x)/2})
\]
Let \( y = 1-x \), \( z = y/2 \), \( s := \sqrt{z} \), and \( \text{pio2_hi+pio2_lo} = \pi/2 \); then for \( x > 0.98 \)
\[
\arcsin(x) = \pi/2 - 2*(s+s*z*R(z))
\]
Let \( y = (1-x) \), \( z = y/2 \), \( s := \sqrt{z} \), and \( \text{pio2_hi+pio2_lo} = \pi/2 \); then for \( x > 0.98 \)
\[
\arcsin(x) = \pi/2 - 2*(s+s*z*R(z))
\]
\[
= \text{pio2_hi} - (2*(s+s*z*R(z)) - \text{pio2_lo})
\]
For \( x \leq 0.98 \), let \( \text{pio4_hi} = \text{pio2_hi/2} \), then
\[
f = \text{hi part of } s;
\]
\[
c = \sqrt{z} - f = (z-f*f)/(s+f) \text{ hi part of } s; \]
and
\[
\arcsin(x) = \pi/2 - 2*(s+s*z*R(z))
\]
\[
= \text{pio4_hi+(pio4-2s)-(2s*z*R(z)-pio2_lo)}
\]
\[
= \text{pio4_hi+(pio4-2f)-(2s*z*R(z)-(pio2_lo+2c))}
\]

arccos

* Method :
\[
\arccos(x) = \pi/2 - \arcsin(x)
\]
\[
\arccos(-x) = \pi/2 + \arcsin(x)
\]
* For \( |x| \leq 0.5 \)
\[
\arccos(x) = \pi/2 - (x + x*x^2*R(x^2))(\text{see asin.c})
\]
* For \( x > 0.5 \)
\[
\arccos(x) = \pi/2 - (\pi/2 - 2\arcsin(\sqrt{(1-x)/2})))
\]
\[
= 2\arcsin(\sqrt{(1-x)/2})
\]
\[
= 2s + 2s*z*R(z) \text{ hi part of } s; \]
\[
= 2f + (2c + 2s*z*R(z))
\]
where \( f = \text{hi part of } s, \text{ and } c = (z-f*f)/(s+f) \) is the correction term
* for \( f \) so that \( f+c \approx \sqrt{z} \).
* For \( x < -0.5 \)
\[
\arccos(x) = \pi - 2\arcsin(\sqrt{(1-|x|)/2})
\]
\[
= \pi - 0.5*(s+s*z*R(z)), \text{ where } z = (1-|x|)/2, s = \sqrt{z}
\]

atan2
* Method:
  1. Reduce $y$ to positive by $\text{atan2}(y,x) = -\text{atan2}(-y,x)$.
  2. Reduce $x$ to positive by (if $x$ and $y$ are unexceptional):
     * $\text{ARG} (x+iy) = \arctan(y/x)$ if $x > 0$,
     * $\text{ARG} (x+iy) = \pi - \arctan[y/(-x)]$ if $x < 0$,

---

* Method:
  1. Reduce $x$ to positive by $\arctan(x) = -\arctan(-x)$.
  2. According to the integer $k=4t+0.25$ chopped, $t=x$, the argument
     is further reduced to one of the following intervals and the
     arctangent of $t$ is evaluated by the corresponding formula:
     
     $[0,7/16]$ $\arctan(x) = t-t^3(a1+t^2*(a2+...+(a10+t^2*a11)...)$
     $[7/16,11/16]$ $\arctan(x) = \arctan(1/2) + \arctan( (t-0.5)/(1+t/2) )$
     $[11/16,19/16]$ $\arctan(x) = \arctan(1) + \arctan( (t-1)/(1+t) )$
     $[19/16,39/16]$ $\arctan(x) = \arctan(3/2) + \arctan( (t-1.5)/(1+1.5t) )$
     $[39/16,\infty]$ $\arctan(x) = \arctan(\infty) + \arctan(-1/t)$

---

* Method:
  1. Argument reduction:
     Reduce $x$ to an $r$ so that $|r| \leq 0.5\ln 2 \sim 0.34658$.
     Given $x$, find $r$ and integer $k$ such that
     
     $x = k\ln 2 + r$, $|r| \leq 0.5\ln 2$.
     
     Here $r$ will be represented as $r = \text{hi-lo}$ for better
     accuracy.
     
     2. Approximation of $\exp(r)$ by a special rational function on
     the interval $[0,0.34658]$:
     
     Write
     
     $R(r**2) = r*(\exp(r)+1)/(\exp(r)-1) = 2 + r^6/6 - r^4/360 + ...$
     
     We use a special Reme algorithm on $[0,0.34658]$ to generate
     a polynomial of degree 5 to approximate $R$. The maximum error
     of this polynomial approximation is bounded by $2^{**-59}$. In
     other words,
     
     $\exp(r) \sim 2.0 + P1*z + P2*z**2 + P3*z**3 + P4*z**4 + P5*z**5$
     
     (where $z=r^*, and the values of $P1$ to $P5$ are listed below)
     
     and
     
     $| 5  | -59$
     $| 2.0+P1*z+...+P5*z - R(z) | \leq 2$
     
     *The computation of $\exp(r)$ thus becomes
* \(2r\)
* \(\exp(r) = 1 + -------\)
* \(R - r\)
* \(r^* R1(r)\)
* \(= 1 + r + -----------\) (for better accuracy)
* \(2 - R1(r)\)
*where
* \(2\ 4\ 10\)
*\(R1(r) = r - (P1*r^4 + P2*r^4 + ... + P5*r^10)\).
*
*3. Scale back to obtain \(\exp(x)\):
*From step 1, we have
* \(\exp(x) = 2^k \times \exp(r)\)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\textbf{hypot}

~~~~~~

*If (assume round-to-nearest) \(z = x^*x + y^*y\)
*has error less than \(\sqrt{2}/2\) ulp, than
*\(\sqrt{z}\) has error less than 1 ulp (exercise).
*
*So, compute \(\sqrt{x^*x + y^*y}\) with some care as
*follows to get the error below 1 ulp:
*
*Assume \(x > y > 0\):
*(if possible, set rounding to round-to-nearest)
*1. if \(x > 2y\) use
* \(x1^*x1 + (y^*y + (x2^*(x-x1)))\) for \(x^*x + y^*y\)
*where \(x1 = x\) with lower 32 bits cleared, \(x2 = x-x1\); else
*2. if \(x \leq 2y\) use
* \(t1^*y1 + ((x-y)^*(x-y) + (t1^*y2 + t2^*y))\)
*where \(t1 = 2x\) with lower 32 bits cleared, \(t2 = 2x-t1\),
* \(y1 = y\) with lower 32 bits chopped, \(y2 = y-y1\).
*
*NOTE: scaling may be necessary if some argument is too
* large or too tiny

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\textbf{j0/y0}

~~~~~~

* Method -- \(j0(x)\):
*1. For tiny \(x\), we use \(j0(x) = 1 - x^2/4 + x^4/64 - ...\)
*2. Reduce \(x\) to \(|x|\) since \(j0(x) = j0(-x)\), and
* for \(x\) in \((0,2)\)
* \(j0(x) = 1-z/4+ z^2*R0/S0\), where \(z = x^*x\);
* (precision: \(\lvert j0-1+z/4-z^2R0/S0 \rvert < 2^{**-63.67} \)
* for \(x\) in \((2,\text{inf})\)
* \(j0(x) = \sqrt{2/(\text{pi}^*x))}*(p0(x)^*\cos(x0)-q0(x)^*\sin(x0))\)
* where \(x0 = x-\pi/4\). It is better to compute \(\sin(x0),\cos(x0)\)
* as follow:
\[ \cos(x_0) = \cos(x)\cos(\pi/4) + \sin(x)\sin(\pi/4) \]
\[ = 1/\sqrt{2} \cdot (\cos(x) + \sin(x)) \]
\[ \sin(x_0) = \sin(x)\cos(\pi/4) - \cos(x)\sin(\pi/4) \]
\[ = 1/\sqrt{2} \cdot (\sin(x) - \cos(x)) \]

* (To avoid cancellation, use \[\sin(x) + - \cos(x) = -\cos(2x)/\left(\sin(x) + \cos(x)\right)\] to compute the worse one.)

* Method -- y0(x):
* 1. For x<2.
* Since
\[ y_0(x) = 2/\pi \cdot (j_0(x) \cdot \ln(x/2) + \text{Euler}) + x^2/4 - ... \]
* therefore y_0(x)-2/\pi \cdot j_0(x) \cdot \ln(x) is an even function.
* We use the following function to approximate y_0,
\[ y_0(x) = U(z)/V(z) + (2/\pi) \cdot j_0(x) \cdot \ln(x), \ z = x^2 \]
* where
\[ U(z) = u_{00} + u_{01}z + ... + u_{06}z^6 \]
\[ V(z) = 1 + v_{01}z + ... + v_{04}z^4 \]
* with absolute approximation error bounded by 2**-72.
* Note: For tiny x, U/V = u_0 and j_0(x)~1, hence
\[ y_0(\text{tiny}) = u_0 + (2/\pi) \cdot \ln(\text{tiny}), \ (\text{choose tiny}<2**-27) \]
* 2. For x>=2.
\[ y_0(x) = \sqrt{2/(\pi x)} \cdot (p_0(x) \cdot \cos(x_0) + q_0(x) \cdot \sin(x_0)) \]
* where x_0 = x-\pi/4. It is better to compute \[\sin(x_0),\cos(x_0)\]
* by the method mentioned above.

\[ j_1/y_1 \]

* Method -- j1(x):
* 1. For tiny x, we use j_1(x) = x/2 - x^3/16 + x^5/384 - ...
* 2. Reduce x to |x| since j_1(x)=-j_1(-x), and
* for x in (0,2)
\[ j_1(x) = x/2 + x*z*R0/S0, \ z = x^2; \]
* (precision: \[|j_1/x - 1/2 - R0/S0| < 2**-61.51\])
* for x in (2,inf)
\[ j_1(x) = \sqrt{2/(\pi x)} \cdot (p_1(x) \cdot \cos(x_1) - q_1(x) \cdot \sin(x_1)) \]
\[ y_1(x) = \sqrt{2/(\pi x)} \cdot (p_1(x) \cdot \sin(x_1) + q_1(x) \cdot \cos(x_1)) \]
* where x_1 = x-3*\pi/4. It is better to compute \[\sin(x_1),\cos(x_1)\]
* as follow:
\[ \cos(x_1) = \cos(x)\cos(3\pi/4) + \sin(x)\sin(3\pi/4) \]
\[ = 1/\sqrt{2} \cdot (\cos(x) - \cos(x)) \]
\[ \sin(x_1) = \sin(x)\cos(3\pi/4) - \cos(x)\sin(3\pi/4) \]
\[ = -1/\sqrt{2} \cdot (\sin(x) + \cos(x)) \]
* (To avoid cancellation, use \[\sin(x) + - \cos(x) = -\cos(2x)/\left(\sin(x) + \cos(x)\right)\] to compute the worse one.)

* Method -- y1(x):
1. screen out x<=0 cases: y1(0)=-inf, y1(x<0)=NaN
2. For x<2.
   * Since
   \[ y1(x) = \frac{2}{\pi} j1(x) \ln(x) - \frac{1}{x} - \frac{x}{2} + \frac{5}{64} x^3 - \ldots \]
   * therefore y1(x)-2/\pi*j1(x)*\ln(x)-1/x is an odd function.
   * We use the following function to approximate y1,
   \[ y1(x) = x^z \frac{(j1(x)\ln(x)}{V(z)} + \frac{(2/\pi)}{U(z)}j1(x)\ln(x)}{V(z)} \]
   * where for x in [0,2] (abs err less than 2**-65.89)
   \[ U(z) = U0[0] + U0[1]*z + \ldots + U0[4]*z^4 \]
   \[ V(z) = 1 + V0[0]*z + \ldots + V0[4]*z^5 \]
   * Note: For tiny x, 1/x dominate y1 and hence
   \[ y1(tiny) = -\frac{2}{\pi}/tiny, \text{ (choose tiny<2**-.54)} \]
3. For x>=2.
   \[ y1(x) = \sqrt{2/(\pi x)} (p1(x)\sin(x1)+q1(x)\cos(x1)) \]
   * where x1 = x-3*pi/4. It is better to compute sin(x1),cos(x1)
   * by method mentioned above.

----------

jn/yn

* Note 2. About jn(n,x), yn(n,x)
   * For n=0, j0(x) is called,
   * for n=1, j1(x) is called,
   * for n<x, forward recursion us used starting
     * from values of j0(x) and j1(x).
   * for n>x, a continued fraction approximation to
     * j(n,x)/j(n-1,x) is evaluated and then backward
     * recursion is used starting from a supposed value
     * for j(n,x). The resulting value of j(0,x) is
     * compared with the actual value to correct the
     * supposed value of j(n,x).

   * yn(n,x) is similar in all respects, except
     * that forward recursion is used for all
     * values of n>1.

jn:
/* (x >> n**2)
 * Jn(x) = cos(x-(2n+1)*pi/4)*sqrt(2/x*pi)
 * Yn(x) = sin(x-(2n+1)*pi/4)*sqrt(2/x*pi)
 * Let s=sin(x), c=cos(x),
 * xn=x-(2n+1)*pi/4, sqt2 = sqrt(2),then
 *
 * nsin(xn)*sqt2cos(xn)*sqt2
 *---------------------------------------------
 * 0 s-c c+s
 * 1-s-c -c+s
 * 2-s+c-c-s
 * 3 s+c c-s
*/
/* x is tiny, return the first Taylor expansion of J(n,x)
 * J(n,x) = 1/n!*(x/2)^n - ...
 *
 /* use backward recurrence */
 /* 
 * J(n,x)/J(n-1,x) = ---- ------ ---- ....
 * 2n  - 2(n+1) - 2(n+2)
 *
 * 1  1  1
 * (for large x) = ---- ------ ---- ....
 * 2n  2(n+1)  2(n+2)
 *-- ------ -----
 * x  x  x
 *
 * Let w = 2n/x and h=2/x, then the above quotient
 * is equal to the continued fraction:
 * 1
 *= -----------------------
 * 1
 *   w - -----------------
 * 1
 *        w+h - ....
 * 1
 *
 * To determine how many terms needed, let
 * Q(0) = w, Q(1) = w(w+h) - 1,
 * Q(k) = (w+k*h)*Q(k-1) - Q(k-2),
 * When Q(k) > 1e4 good for single
 * When Q(k) > 1e9 good for double
 * When Q(k) > 1e17 good for quadruple
 *
 /* estimate log((2/x)^n*n!) = n*log(2/x)+n*ln(n)
 * Hence, if n*(log(2n/x)) > ...
 * single 8.8722839355e+01
 * double 7.09782712893383973096e+02
 * long double 1.135652340629413949491931077970765006170e+04
 * then recurrent value may overflow and the result is
 * likely underflow to zero
 *
 yn:
 /* (x >> n**2)
 * Jn(x) = cos(x-(2n+1)*pi/4)*sqrt(2/x*pi)
 * Yn(x) = sin(x-(2n+1)*pi/4)*sqrt(2/x*pi)
 * Let s=sin(x), c=cos(x),
 * xn=x-(2n+1)*pi/4, sqt2 = sqrt(2),then
 * 
 *
\[ n \sin(xn) \sqrt{2} \cos(xn) \sqrt{2} \]

\[ \begin{array}{c|c|c}
   \hline
   n & \sin(xn) & \cos(xn) \\
   \hline
   0 & s-c & c+s \\
   1 & -s-c & -c+s \\
   2 & -s+c & -c-s \\
   3 & s+c & c-s \\
   \hline
\end{array} \]

\[ \text{lgamma} \]

\[ \text{Method:} \]

1. Argument Reduction for 0 < x <= 8
Since \( \gamma(1+s) = s \gamma(s) \), for \( x \) in [0,8], we may
reduce \( x \) to a number in [1.5,2.5] by
\[
\text{lgamma}(1+s) = \log(s) + \text{lgamma}(s)
\]

for example,

\[
\text{lgamma}(7.3) = \log(6.3) + \text{lgamma}(6.3)
\]

\[
= \log(6.3 \times 5.3) + \text{lgamma}(5.3)
\]

2. Polynomial approximation of \( \text{lgamma} \) around its
minimum \( y_{\text{min}} = 1.461632144968362245 \) to maintain monotonicity.
On \([y_{\text{min}}-0.23, y_{\text{min}}+0.27]\) (i.e., \([1.23164,1.73163]\)), use
\[
\text{Let } z = x - y_{\text{min}};
\]

\[
\text{lgamma}(x) = -1.214862905358496078218 + z^2 \times \text{poly}(z)
\]

where \( \text{poly}(z) \) is a 14 degree polynomial.

2. Rational approximation in the primary interval [2,3]
We use the following approximation:
\[
s = x-2.0;
\]

\[
\text{lgamma}(x) = 0.5s + sP(s)/Q(s)
\]

with accuracy
\[
|P/Q - (\text{lgamma}(x)-0.5s)| < 2^{-61.71}
\]

Our algorithms are based on the following observation

\[
z = 2^{1-2s} \quad \text{poly}(z) = \zeta(2) - 1 \quad \text{poly}(3) = 3
\]

\[
\begin{array}{c|c|c}
\hline
\text{lgamma}(2+s) & s*(1-\text{Euler}) + & s - \\
   & \text{-} & \text{-} \\
   & \text{2} & \text{3} \\
\hline
\end{array}
\]

where Euler = 0.5771... is the Euler constant, which is very
close to 0.5.

3. For \( x \geq 8 \), we have
\[
\text{lgamma}(x) - (x-0.5)\log(x) - x + 0.5\log(2\pi) + 1/(12x) - 1/(360x^3) + \ldots
\]

(better formula:
\[
\text{lgamma}(x) - (x-0.5)^*(\log(x)-1) - 5*(\log(2\pi)-1) + \ldots
\]

Let \( z = 1/x \), then we approximation
\[
f(z) = \text{lgamma}(x) - (x-0.5)(\log(x)-1)
\]
by
\[
3 \quad 5 \quad 11
\]
\[ w = w_0 + w_1 z + w_2 z^2 + w_3 z^3 + \ldots + w_6 z^6 \]

where

\[ |w - f(z)| < 2^{-58.74} \]

* 4. For negative x, since \(G\) is gamma function

\[-x^{*}G(-x)G(x) = \pi/\sin(\pi x),\]

we have

\[ G(x) = \pi/\sin(\pi x) \times G(-x) \]

since \(G(-x)\) is positive, \(\text{sign}(G(x)) = \text{sign}(\sin(\pi x))\) for \(x < 0\)

Hence, for \(x < 0\), \(\text{signgam} = \text{sign}(\sin(\pi x))\) and

\[ \text{lgamma}(x) = \log(|\Gamma(x)|) \]

= \log(\pi/(|x \sin(\pi x)|)) - \text{lgamma}(-x);

*Note: one should avoid compute \(\pi^{*}(-x)\) directly in the

* computation of \(\sin(\pi^{*}(-x))\).

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

log

~~~

* Method :
  1. Argument Reduction: find \(k\) and \(f\) such that

\[ x = 2^{k} \times f + 1 \]

where \(\sqrt{2}/2 < 1 + f < \sqrt{2}\).

  
  2. Approximation of \(\log(1 + f)\).

Let \(s = f/(1 + f)\) : based on

\[ \log(1 + f) = \log(1 + s) - \log(1 - s) \]

= \(2s + 2/3 s^3 + 2/5 s^5 + \ldots\),

= \(2s + s^2 R\)

We use a special Reme algorithm on \([0,0.1716]\) to generate

a polynomial of degree 14 to approximate \(R\) The maximum error

* of this polynomial approximation is bounded by \(2^{-58.45}\). In

* other words,

\[
\begin{array}{cccccccc}
2 & 4 & 6 & 8 & 10 & 12 & 14 \\
R(z) & \approx & Lg_1 s & + Lg_2 s & + Lg_3 s & + Lg_4 s & + Lg_5 s & + Lg_6 s & + Lg_7 s \\
& & & & & & & & \\
& & (the values of Lg_1 to Lg_7 are listed in the program) \\
\end{array}
\]

and

\[
\begin{array}{cccc}
2 & 14 & \text{---} & -58.45 \\
Lg_1 s & + \ldots + Lg_7 s & - R(z) & \leq 2 \\
\end{array}
\]

*Note that \(2s = f - s^2 f = f - hfsq + s*hfsq\), where \(hfsq = f^2/2\).

*In order to guarantee error in \(\log\) below 1ulp, we compute \(\log\)

* by

\[ \log(1 + f) = f - s*(f - \text{R}) \] (if \(f\) is not too large)

\[ \log(1 + f) = f - (hfsq - s*(hfsq+R)). \] (better accuracy)

* 3. Finally, \(\log(x) = k*\ln2 + \log(1 + f)\).

\[ = k*\ln2_{hi} + f - (hfsq - s*(hfsq+R) + k*\ln2_{lo})\]

* Here \(\ln2\) is split into two floating point number:

\(\ln2_{hi} + \ln2_{lo}\),

* where \(n*\ln2_{hi}\) is always exact for |\(n\)| < 2000.
log10

* Method:
* Let $\log_{10\_2hi} = \text{leading 40 bits of } \log_{10}(2)$ and
* $\log_{10\_2lo} = \log_{10}(2) - \log_{10\_2hi}$,
* $\text{ivln10} = 1/\log(10)$ rounded.
* Then
* $n = \text{ilogb}(x)$,
* $\text{if}(n<0) \ n = n+1$;
* $x = \text{scalbn}(x,-n)$;
* $\log_{10}(x) := n*\log_{10\_2hi} + (n*\log_{10\_2lo} + \text{ivln10}*\log(x))$
* 
* Note 1:
* To guarantee $\log_{10}(10**n)=n$, where $10**n$ is normal, the rounding
* mode must set to Round-to-Nearest.
* Note 2:
* $[1/\log(10)]$ rounded to 53 bits has error .198 ulps;
* $\log_{10}$ is monotonic at all binary break points.

pow

* Method: Let $x = 2^{1+f}$
* 1. Compute and return $\log_2(x)$ in two pieces:
* $\log_2(x) = w1 + w2$,
* where $w1$ has 53-24 = 29 bit trailing zeros.
* 2. Perform $y*\log_2(x) = n+y'$ by simulating multi-precision
* arithmetic, where $|y'|<=0.5$.
* 3. Return $x**y = 2**n*\exp(y'*\log_2)$
* 
* Special cases:
* 1. (anything) ** 0 is 1
* 2. (anything) ** 1 is itself
* 3. (anything) ** NAN is NAN
* 4. NAN ** (anything except 0) is NAN
* 5. $-|x| > 1$ ** +INF is +INF
* 6. $-|x| > 1$ ** -INF is +0
* 7. $-|x| < 1$ ** +INF is +0
* 8. $-|x| < 1$ ** -INF is +INF
* 9. -1 ** +INF is NAN
* 10. +0 ** (+anything except 0, NAN) is +0
* 11. -0 ** (+anything except 0, NAN, odd integer) is +0
* 12. +0 ** (-anything except 0, NAN) is +INF
* 13. -0 ** (-anything except 0, NAN, odd integer) is +INF
* 14. -0 ** (odd integer) = -(+0 ** (odd integer))
* 15. +INF ** (+anything except 0,NAN) is +INF
* 16. +INF ** (-anything except 0,NAN) is +0
* 17. -INF ** (anything) = -0 ** (-anything)
*18. (-anything) ** (integer) is (-1)**(integer)*(+anything**integer)
*19. (-anything except 0 and inf) ** (non-integer) is NAN

rem_pio2
return the remainder of x rem pi/2 in y[0]+y[1]

This is one of the basic functions which is written with highest accuracy in mind.

sinh

* Method:
* mathematically sinh(x) if defined to be (exp(x)-exp(-x))/2
* 1. Replace x by |x| (sinh(-x) = -sinh(x)).
* 2.
* E + E/(E+1)
* 0 <= x <= 22 : sinh(x) := ---------, E=expm1(x)
*  2
*
* 22 <= x <= lnovft : sinh(x) := exp(x)/2
* lnovft <= x <= ln2ovft: sinh(x) := exp(x/2)/2 * exp(x/2)
* ln2ovft < x : sinh(x) := x*shuge (overflow)

sqrt

* Method:
* Bit by bit method using integer arithmetic. (Slow, but portable)
* 1. Normalization
*Scale x to y in [1,4) with even powers of 2:
*find an integer k such that 1 <= (y=x*2^(-2k)) < 4, then
*sqrt(x) = 2^k * sqrt(y)
* 2. Bit by bit computation
*Let q = sqrt(y) truncated to i bit after binary point (q = 1),
* i 0
* i+1 2
* s = 2^q , andy = 2 * ( y - q ).(1)
* i i i
*
*To compute q from q , one checks whether
* i+1 i
* -(i+1) 2
*(q + 2 ) <= y.(2)
* i
* -(i+1)
*If (2) is false, then q = q ; otherwise q = q + 2 .
* i+1 i i+1 i
*With some algebric manipulation, it is not difficult to see
that (2) is equivalent to
* 
* s + 2 \leq y(3)
* i i
*

*The advantage of (3) is that s and y can be computed by
* i i
*the following recurrence formula:
* if (3) is false
*
* s = s \cdot y = y ; (4)
* i+1 i i+1 i
*
* otherwise,
* * -i -(i+1)
* s = s + 2 , y = y - s - 2 (5)
* i+1 i i+1 i i
*
*One may easily use induction to prove (4) and (5).

*Note. Since the left hand side of (3) contain only i+2 bits,
* it does not necessary to do a full (53-bit) comparison
* in (3).
*
3. Final rounding
*After generating the 53 bits result, we compute one more bit.
*Together with the remainder, we can decide whether the
*result is exact, bigger than 1/2ulp, or less than 1/2ulp
*(it will never equal to 1/2ulp).
*The rounding mode can be detected by checking whether
*huge + tiny is equal to huge, and whether huge - tiny is
*equal to huge for some floating point number "huge" and "tiny".

~~~~~~~~

\begin{verbatim}
cos

* kernel cos function on [-pi/4, pi/4], pi/4 ~ 0.785398164
* Input x is assumed to be bounded by ~pi/4 in magnitude.
* Input y is the tail of x.
*
* Algorithm
*1. Since cos(-x) = cos(x), we need only to consider positive x.
*2. if x < 2^-27 (hx<0x3e400000 0), return 1 with inexact if x!=0.
*3. cos(x) is approximated by a polynomial of degree 14 on
* [0,pi/4]
*  4 14
* cos(x) \approx 1 - x^2 + C1*x + ... + C6*x
* where the remez error is
*
* | 2 4 6 8 10 12 14 | -58
* |cos(x)-(1-5^*x +C1*x +C2*x +C3*x +C4*x +C5*x +C6*x )| \leq 2

\end{verbatim}

~~~~~~~~
cos(x) = 1 - x*x/2 + r
since cos(x+y) ~ cos(x) - sin(x)*y
~ cos(x) - x*y;
a correction term is necessary in cos(x) and hence
\[ \cos(x+y) = 1 - (x^2/2 - (r - x*y)) \]
For better accuracy when x > 0.3, let qx = |x|/4 with
the last 32 bits mask off, and if x > 0.78125, let qx = 0.28125.
Then
\[ \cos(x+y) = (1-qx) - ((x^2/2-qx) - (r-x*y)) \]
Note that 1-qx and (x^2/2-qx) is EXACT here, and the
magnitude of the latter is at least a quarter of x^2/2.
thus, reducing the rounding error in the subtraction.

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sin
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

kernel sin function on [-\pi/4, \pi/4], \pi/4 ~ 0.7854
Input x is assumed to be bounded by \pm \pi/4 in magnitude.
Input y is the tail of x.
Input iy indicates whether y is 0. (if iy=0, y assume to be 0).

Algorithm
1. Since sin(-x) = -sin(x), we need only to consider positive x.
2. if x < 2^{-27} (hx<0x3e400000 0), return x with inexact if x!=0.
3. sin(x) is approximated by a polynomial of degree 13 on
   \[ \sin(x) \approx x + S1*x + ... + S6*x \]
   where
   \[ |\sin(x) - x + S1*x + ... + S6*x| \leq 2 \]
4. sin(x+y) = sin(x) + sin'(x')*y
   ~ sin(x) + (1-x*x/2)*y
   For better accuracy, let
   \[ r = x *(S2+x *(S3+x *(S4+x *(S5+x *S6)))) \]
   then
   \[ \sin(x) = x + (S1*x + (x *(r-y/2)+y)) \]

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
tan
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

kernel tan function on [-\pi/4, \pi/4], \pi/4 ~ 0.7854
* Input x is assumed to be bounded by ~π/4 in magnitude.
* Input y is the tail of x.
* Input k indicates whether tan (if k=1) or
* -1/tan (if k= -1) is returned.

* Algorithm
*1. Since tan(-x) = -tan(x), we need only to consider positive x.
*2. If x < 2^-28 (hx<0x3e300000 0), return x with inexact if x!=0.
*3. tan(x) is approximated by a odd polynomial of degree 27 on
  [0,0.67434]
  3 27
  tan(x) ~ x + T1*x + ... + T13*x
  where

*   |tan(x)  2  4  26 | -59.2
*   |----- -(1+T1*x +T2*x +.... +T13*x )| <= 2
*   | x |

* Note: tan(x+y) = tan(x) + tan'(x)*y
*   ~ tan(x) + (1+x*x)*y
* Therefore, for better accuracy in computing tan(x+y), let
   3  2  2 2 2
* r = x *(T2+x *(T3+x *(...+x *(T12+x *T13))))
* then
   3  2
* tan(x+y) = x + (T1*x + (x *(r+y)+y))

*4. For x in [0.67434,π/4], let y = π/4 - x, then
*tan(x) = tan(π/4-y) = (1-tan(y))/(1+tan(y))
*   = 1 - 2*(tan(y) - (tan(y)^2)/(1+tan(y)))

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
atan
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
erf

* Method
* 1. Reduce x to positive by atan(x) = -atan(-x).
* 2. According to the integer k=4t+0.25 chopped, t=x, the argument
* is further reduced to one of the following intervals and the
* arctangent of t is evaluated by the corresponding formula:
*   [0,7/16]  atan(x) = t^-3*(a1+t^2*a2+...(a10+t^2*a11)...)  
*   [7/16,11/16] atan(x) = atan(1/2) + atan( (t-0.5)/(1+t/2) )
*   [11/16,19/16] atan(x) = atan( 1 ) + atan( (t-1)/(1+t) )
*   [19/16,39/16] atan(x) = atan(3/2) + atan( (t-1.5)/(1+1.5t) )
*   [39/16,INF]  atan(x) = atan(INF) + atan( -1/t )

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

* x
\[
\begin{align*}
\text{erf}(x) &= \frac{2}{\sqrt{\pi}} \int_0^x \exp(-t^2) \, dt \\
\text{erfc}(x) &= 1 - \text{erf}(x)
\end{align*}
\]

Note that
\[
\begin{align*}
\text{erf}(-x) &= -\text{erf}(x) \\
\text{erfc}(-x) &= 2 - \text{erfc}(x)
\end{align*}
\]

Method:

1. For \(|x| \leq 0.84375\)
   \[
   \begin{align*}
   \text{erf}(x) &= x + x \times R(x^2) \\
   \text{erfc}(x) &= 1 - \text{erf}(x)
   \end{align*}
   \]
   where \(R = P/Q\) where \(P\) is an odd poly of degree 8 and \(Q\) is an odd poly of degree 10.

2. For \(|x| \in [0.84375, 1.25]\), let \(s = |x| - 1\), and \(c = 0.84506291151\) rounded to single (24 bits)
   \[
   \begin{align*}
   \text{erf}(x) &= \text{sign}(x) \times (c + P1(s)/Q1(s)) \\
   \text{erfc}(x) &= (1-c) - P1(s)/Q1(s) \quad \text{if } x > 0 \\
   &= 1 + (c + P1(s)/Q1(s)) \quad \text{if } x < 0
   \end{align*}
   \]
   \[
   \frac{|P1/Q1 - (\text{erf}(|x|) - c)|}{2^{59.06}}
   \]

Remark: here we use the taylor series expansion at \(x=1\).

3. For \(x \geq 1.25\) \(1/0.35 \approx 2.857143\),
   \[
   \text{erfc}(x) = (1/x) \times \exp(-x^2 - 0.5625 + R1/S1)
   \]

Remark: The formula is derived by noting
\[
\text{erf}(x) = \frac{2}{\sqrt{\pi}} \times (x - x^3/3 + x^5/10 - x^7/42 + \ldots)
\]
and that
\[
\frac{2}{\sqrt{\pi}} \approx 1.128379167095512573896158903121545171688
\]
is close to one. The interval is chosen because the fix point of \(\text{erf}(x)\) is near 0.6174 (i.e., \(\text{erf}(x) = x\) when \(x\) is near 0.6174), and by some experiment, 0.84375 is chosen to guarantee the error is less than one ulp for \(\text{erf}\).

Remark: the formula is derived by noting
\[
\text{erf}(x) = \frac{2}{\sqrt{\pi}} \times (x - x^3/3 + x^5/10 - x^7/42 + \ldots)
\]
and that
\[
\frac{2}{\sqrt{\pi}} \approx 1.128379167095512573896158903121545171688
\]
is close to one. The interval is chosen because the fix point of \(\text{erf}(x)\) is near 0.6174 (i.e., \(\text{erf}(x) = x\) when \(x\) is near 0.6174), and by some experiment, 0.84375 is chosen to guarantee the error is less than one ulp for \(\text{erf}\).
* erf(x) = 1 - erfc(x)  
* where  
*R1(z) = degree 7 poly in z, (z=1/x^2)  
*S1(z) = degree 8 poly in z  
*  
* 4. For x in [1/0.35,28]  
* erf(x) = (1/x)*exp(-x*x-0.5625+R2/S2) if x > 0  
* = 2.0 - (1/x)*exp(-x*x-0.5625+R2/S2) if -6<x<0  
* = 2.0 - tiny if x <= -6  
* erf(x) = sign(x)*(1.0 - erfc(x)) if x < 6, else  
* erf(x) = sign(x)*(1.0 - tiny)  
* where  
*R2(z) = degree 6 poly in z, (z=1/x^2)  
*S2(z) = degree 7 poly in z  
*  
* Note1:  
* To compute exp(-x*x-0.5625+R/S), let s be a single  
* precision number and s := x; then  
* -x*x = -s*s + (s-x)*(s+x)  
* exp(-x*x-0.5625+R/S) =  
* exp(-(s*s-0.5625)*exp((s-x)*(s+x)+R/S);  
*  
* Note2:  
* Here 4 and 5 make use of the asymptotic series  
* exp(-x*x)  
* erfc(x) ~ ---------- * ( 1 + Poly(1/x^2) )  
* x*sqrt(pi)  
* We use rational approximation to approximate  
* g(s)=f(1/x^2) = log(erfc(x)*x) - x*x + 0.5625  
* Here is the error bound for R1/S1 and R2/S2  
* |R1/S1 - f(x)| < 2**(-62.57)  
* |R2/S2 - f(x)| < 2**(-61.52)  
*  
* 5. For inf > x >= 28  
* erf(x) = sign(x) *(1 - tiny) (raise inexact)  
* erfc(x) = tiny*tiny (raise underflow) if x > 0  
* = 2 - tiny if x<0  

expm1 Returns exp(x)-1, the exponential of x minus 1  

* Method  
* 1. Argument reduction:  
* Given x, find r and integer k such that  
*  
* x = k*ln2 + r, |r| <= 0.5*ln2 ~ 0.34658  
*  
* Here a correction term c will be computed to compensate  
* the error in r when rounded to a floating-point number.
* 2. Approximating expm1(r) by a special rational function on the interval [0,0.34658]:
*Since
* r*(exp(r)+1)/(exp(r)-1) = 2 + r^2/6 - r^4/360 + ...
*we define R1(r^2) by
* r*(exp(r)+1)/(exp(r)-1) = 2 + r^2/6 * R1(r^2)
*That is,
* R1(r^2) = 6/r *((exp(r)+1)/(exp(r)-1) - 2/r)
* = 1 - r^2/60 + r^4/2520 - r^6/100800 + ...
* We use a special Reme algorithm on [0.0.347] to generate a polynomial of degree 5 in r^2 to approximate R1. The maximum error of this polynomial approximation is bounded by 2**-61. In other words,
* R1(z) ~ 1.0 + Q1*z + Q2*z**2 + Q3*z**3 + Q4*z**4 + Q5*z**5
*where Q1 = -1.6666666666666667384E-2,
* Q2 = 3.968253968137036873E-4,
* Q3 = -9.920634733435987357E-6,
* Q4 = 2.5051361420808517002E-7,
* Q5 = -6.2843505682382617102E-9.
*(where z=r^2, and the values of Q1 to Q5 are listed below)
*with error bounded by
* | 5 | -61
* | 1.0+Q1*z+...+Q5*z - R1(z) | <= 2
* |
*expm1(r) = exp(r)-1 is then computed by the following specific way which minimize the accumulation rounding error:
* 2 3
* r  r  [ 3 - (R1 + R1*r/2) ]
* expm1(r) = r + --- + --- * [-----------------------]
* 2 2  [ 6 - r*(3 - R1*r/2) ]
*
*To compensate the error in the argument reduction, we use
*expm1(r+c) = expm1(r) + c + expm1(r)*c
* ~ expm1(r) + c + r*c
*Thus c+r*c will be added in as the correction terms for expm1(r+c). Now rearrange the term to avoid optimization
*screw up:
* ( 2 2 )
* ( \{ ( r - (R1 - (3 - R1*r/2) ) ) \} r )
* expm1(r+c)-r - (r^*\{-- * [------------------------]-c)-c\} - --- )
* ( \{ ( 2 \{ 6 - r*(3 - R1*r/2) ] \} 2 )
* ( )
* = r - E
* 3. Scale back to obtain expm1(x):
*From step 1, we have
* expm1(x) = either 2^k*[expm1(r)+1] - 1
* = or 2^k*[expm1(r) + (1-2^-k)]
* 4. Implementation notes:
* (A). To save one multiplication, we scale the coefficient Qi
* to Qi*2^i, and replace z by (x^2)/2.
* *(B). To achieve maximum accuracy, we compute expm1(x) by
* (i) if x < -56*ln2, return -1.0, (raise inexact if x!=inf)
* (ii) if k=0, return r-E
* (iii) if k=-1, return 0.5*(r-E)-0.5
* (iv)if k=1 if r < -0.25, return 2*[(r+0.5)- E)
* else return 1.0+2.0*(r-E);
* (v) if (k<2||k>56) return 2^k(1-(E-r)) - 1 (or exp(x)-1)
* (vi) if k <= 20, return 2^k((1-2^-k)-(E-r)), else
* (vii) return 2^k(1-((E+2^-k)-r))
*
* Special cases:
*expm1(INF) is INF, expm1(NaN) is NaN;
*expm1(-INF) is -1, and
*for finite argument, only expm1(0)=0 is exact.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
log1p

~~~~~~~~

* Method :  
* 1. Argument Reduction: find k and f such that
* 1+x = 2^k * (1+f),
* where sqrt(2)/2 < 1+f < sqrt(2) .
*
* 2. Approximation of log1p(f).
*Let s = f/(2+f) ; based on log(1+f) = log(1+s) - log(1-s)
* = 2s + 2/3 s**3 + 2/5 s**5 + ......,
* = 2s + s*R
* We use a special Reme algorithm on [0,0.1716] to generate
* a polynomial of degree 14 to approximate R The maximum error
*of this polynomial approximation is bounded by 2**-58.45. In
*other words,
* 2 4 6 8 10 12 14
* R(z) ~ Lp1*s +Lp2*s +Lp3*s +Lp4*s +Lp5*s +Lp6*s +Lp7*s
* (the values of Lp1 to Lp7 are listed in the program)
*and
* | 2 14 | -58.45
* | Lp1*s +...+Lp7*s - R(z) | <= 2
Note that 2s = f - s*f = f - hfsq + s*hfsq, where hfsq = f*f/2.

In order to guarantee error in log below 1ulp, we compute log
*by
*\log 1p(f) = f - (hfsq - s*(hfsq+R)).
*
*3. Finally, log 1p(x) = k*ln2 + log 1p(f).
* = k*ln2_hi+(f-(hfsq-(s*(hfsq+R)+k*ln2_lo)))
* Here ln2 is split into two floating point number:
*ln2_hi + ln2_lo,
* where n*ln2_hi is always exact for |n| < 2000.

Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid
Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
transitioned to use the new macro. */
#if (defined _BSD_SOURCE || defined _SVID_SOURCE) 
&& !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
+# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE1
#endif

1.148 libc6-dev 2.23 :0ubuntu11
1.148.1 Available under license :

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@@ -145,7 +145,10 @@
       transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
   && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
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Author: Adam Conrad <adconrad@ubuntu.com>

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+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
     transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
     && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror 
+   and we don't have time to check/fix everything before vivid release 
+ warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE" 
+*/
 # undef _DEFAULT_SOURCE
 # define _DEFAULT_SOURCE1
#endif
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  && !_defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE	1
#endif

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Author: Adam Conrad <adconrad@ubuntu.com>

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+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \&& !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
+ # warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
+#undef _DEFAULT_SOURCE
+define _DEFAULT_SOURCE
+endif
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1.153 libcc1-0 5.4.0 :6ubuntu1~16.04.11

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
public PermissionCollection newPermissionCollection()
{
  return null;
}

public String toString()
{
  CPStringBuilder string = new CPStringBuilder();

  string = string.append('(');
  string = string.append(getClass().getName());
  string = string.append(' ');
  string = string.append(getName());

  if (!(getActions().equals("")))
  {
    string = string.append(' ');
    string = string.append(getActions());
  }

  string = string.append(')');
  return string.toString();
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same as the class
 * java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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java/security/acl/Permission.java

SourceFilePermission.java

6/gnu/javax/sound/AudioSecurityManager$Permission.java

EnumPLAY1Lgnu/javax/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/javax/sound/AudioSecurityManager$Permission;<clinit>

SourceFileAudioSecurityManager.java

SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager

Permission@1@@@@

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6YK*Y<YM#,*)*
*
*+.012
35@

// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
 namespace gnu
 {
 namespace javax
 {
 namespace sound
 {
 class AudioSecurityManager$Permission;
 }
 }
 }
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@grouch.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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c man end
" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
"
" Standard preamble:
" ========================================================================
de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\$1\$1\$R
.PP
--
de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
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--
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.nf
.ne \$1
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de Ve " End verbatim text
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.tr \(*W-
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That's all there is to it!

/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"
/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line 
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line 
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line 
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
life a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG)\  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@appendixsubsec Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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 the Library.
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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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Accompany the work with the complete corresponding
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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.

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

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#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string

        self.num_errors += 1

        if self.num_errors % 10 == 0:
            print(f'errors: {self.num_errors}')

        if self.num_errors >= 500:
            print('Totally giving up on this file!

            More errors:
            ' + string + '

            cleanup all copies of this file and the
            copyright file (correct one)')

            sys.exit(1)

            return

        if self.num_errors == 1:
            print('Only one error:

            ' + string + '

            Please fix the file, or delete it and
            regenerate it')

            return

        def run(cmd, *args):
            exit_code, output = subprocess.getstatusoutput(cmd)

            if exit_code == 0:
                return output

            print(f'Error running {cmd}:

            {output}')

import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string

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            cleanup all copies of this file and the
            copyright file (correct one)')

            sys.exit(1)

            return

        if self.num_errors == 1:
            print('Only one error:

            ' + string + '

            Please fix the file, or delete it and
            regenerate it')

            return

        def run(cmd, *args):
            exit_code, output = subprocess.getstatusoutput(cmd)

            if exit_code == 0:
                return output

            print(f'Error running {cmd}:

            {output}')
sys.stderr.write (string + "\n")

self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (]
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'f dl.text',
            'gpl_v3.text',
            'f dl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'lt- options.m4',
            'lt-sugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]+([-0-9.,\s]+and\s+)*[0-9]+'

        # Non-whitespace characters in a copyright holder’s name.
        name = '[\w.,-]+'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(  
            '\[(Cc)opyright'  
            '\[(Cc)opyright\s+%s'  
            '\[(Cc)opyright\s+©'  
            '\[(Cc)opyright\s+\@copyright{}'  
            '@copyright = u\'  
            '@set\s+copy\ryright\[w-\]+'  
            '[Cc]opyright\s+\(\[Cc\]\)'  
            '\[[Cc]opyright\s+\&copy;'  
            '\[[Cc]opyright\s+\@copyright\[ ]'  
            '\[copyright = u\]'  
            '\[set\s+copy\r\yright\[w-\]+'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
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            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)opyright\s+\(\[Cc\]\[Cc\]\)'  
            '\[(Cc)
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+@c |dnl ')
self.holders = {'@copying': '@copying '}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', .
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
year_list = [self.parse_year(year)
    for year in self.year_re.findall(years)]
assert len(year_list) > 0
return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != '':
        self.errors.report(pathname,
                           'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None
            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match
            holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
        else:
            # See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
else:
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
pass
return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                               file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
                else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
'Options:\n' % sys.argv[0])
format = '%-15s %s\n'
for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\nDirectories:\n')
format = '%-25s'
i=0
for (dir, filter) in self.dirs:
i += 1
if i % 3 == 0 or i == len (self.dirs):
sys.stdout.write (dir + '\n')
else:
sys.stdout.write (format % dir)
sys.exit (0)
def o_quilt (self, option):
self.copyright.set_use_quilt (True)
def o_this_year (self, option):
self.copyright.include_year (time.localtime().tm_year)

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def main(self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

#---
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
GenericFilter.__init__(self)

self.skip_files |= set([
    # Not part of GCC
    'math-68881.h',
])

self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',
    
    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    
    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information

self.skip_extensions |= set([
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
# and isn't updated.
if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter(self, dir, filename)
class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])  

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])  

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])  

        def get_line_filter(self, dir, filename):
            if filename == 'boost_concept_check.h':
                return re.compile('// (C) Copyright Jeremy Siek')
            return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsfs = ['Free Software Foundation, Inc.',
                      'Free Software Foundation',
                      'Free Software Foundation Inc.',
                      'Free Software Foundation,'
                      'Free Software Foundation.
        ]

        for csf in canon_fsfs:
            self.add_package_author(csf)

        self.add_package_author('Free Software Foundation Inc.',
                                'Free Software Foundation Inc.'
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
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self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
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self.add_external_author('Peter Dimov')
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self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnatools')
    self.add_dir ('include')
    self.add_dir ('libada')
    self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecrementer')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libdecrementer',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{


class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);

virtual void checkGuard(::java::lang::Object *);

virtual jboolean implies(::java::security::Permission *) = 0;

virtual jboolean equals(::java::lang::Object *) = 0;

virtual jint hashCode() = 0;

virtual ::java::lang::String * getName();

virtual ::java::lang::String * getActions() = 0;

virtual ::java::security::PermissionCollection * newPermissionCollection();

virtual ::java::lang::String * toString();

private:

static const jlong serialVersionUID = -563657022231596674LL;

::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:

static ::java::lang::Class class$;
};
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
  class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
  static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {

    }
return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }
    }
if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright &amp;#169; "+ tags[i].text() + "</dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

CopyrightTaglet.java
/*1-7;:,?,C,G,K,O!,S"#QYSL*+%+#WWXY-.*/01A
*2Y+S4

7806+=>+29<=+_BYDN-EGW67+29&lt;-KYMO+29RURWGW+-YGW-[F"adefge+k/l7m&gt;nDoSpunstw>\]^_`a7TbcA">ade
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
   * This class is the abstract superclass of all classes that implement
   * the concept of a permission. A permission consists of a permission name
   * and optionally a list of actions that relate to the permission. The
   * actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.

* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.

* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.

* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable
{
 /**
 * Compatible with JDK 1.1+.
 */
 private static final long serialVersionUID = -5636570222231596674L;

 /**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
 private String name;

 /**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
 public Permission(String name)
 { this.name = name;
 }

 /**
* This method implements the `<code>Guard</code>` interface for this class.
* It calls the `<code>checkPermission</code>` method in
* `<code>SecurityManager</code>` with this `<code>Permission</code>` as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* `@param obj` the `<code>Object</code>` being guarded - ignored by this class
* `@throws SecurityException` if the security check fails
* `@see GuardedObject`
* `@see SecurityManager#checkPermission(Permission)`
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this `<code>Permission</code>` implies that the
 * specified `<code>Permission</code>` is also granted.
 *
 * `@param perm` the `<code>Permission</code>` to test against
 * `@return` true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use `<code>implies</code>`, rather
 * than `<code>equals</code>`, when making access control decisions.
 *
 * `@param obj` the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this `<code>Permission</code>`. It
 * must satisfy the contract of `<code>Object.hashCode</code>`: it must be
 * the same for all objects that equals considers to be the same.
 *
 * `@return` a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this `<code>Permission</code>`.
 *
 * `@return` the name
**/  
public final String getName()  
{  
    return name;  
}  

/**  
* This method returns the list of actions for this <code>Permission</code>  
* as a <code>String</code>. The string should be in canonical order, for  
* example, both <code>new FilePermission(f, "write,read")</code> and  
* <code>new FilePermission(f, "read,write")</code> have the action list  
* "read,write".  
*  
* @return the action list for this <code>Permission</code>  
*/  
public abstract String getActions();  

/**  
* This method returns an empty <code>PermissionCollection</code> object  
* that can store permissions of this type, or <code>null</code> if no  
* such collection is defined. Subclasses must override this to provide  
* an appropriate collection when one is needed to accurately calculate  
* <code>implies</code>.  
*  
* @return a new <code>PermissionCollection</code>  
*/  
public PermissionCollection newPermissionCollection()  
{  
    return null;  
}  

/**  
* This method returns a <code>String</code> representation of this  
* <code>Permission</code> object. This is in the format:  
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions  
* + ' )'</code>.  
*  
* @return this object as a <code>String</code>  
*/  
public String toString()  
{  
    CPStringBuilder string = new CPStringBuilder();  
    string = string.append('(');  
    string = string.append(getClass().getName());  
    string = string.append(' ');  
    string = string.append(getName());  
    string = string.append(' ' + getActions);  
    string = string.append(' )');  
    return string.toString();  
}
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
} // class Permission
/** Permission.java -- Information about an ACL permission
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package java.security.acl;
/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {

    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~(nameLjava/lang/String;<init>(Ljava/lang/String;)VCode()
LineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()I
setName()Ljava/lang/
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
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 (dossier@src.dec.com) and Regis Crillog (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@ntiam.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

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license document, but changing it is not allowed.
@c man end
@end ignore

@c This file is intended to be included in another file.

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`\text{\texttt{tr \texttt{\*W-}}}
\text{\texttt{.ds C+ C\texttt{\-1.1v\h'-1p\^s-2+\h'-1p\^s0w.1v\h'-1p\}}}
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm \", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), \"%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm \", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), \"%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm \", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), \"%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
  if ((LOG)!=0) fprintf ((FILE), \"\t.align %d\n", (LOG))
/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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Developed by:

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// DO NOT EDIT THIS FILE - it is machine generated .*- c++.*- 

#ifndef __java_security_Permission__
#define __java_security_Permission__
#endif

#pragma interface

#include <java/lang/Object.h>
extern "java" 

namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#ifdef __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {

```
class Permission;
{

}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
  static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
public abstract class Permission implements Guard, Serializable {
    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object that can store permissions of this type, or <code>null</code> if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate <code>implies</code>.
* 
* @return a new <code>PermissionCollection</code>
*/

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ' + ' + getActions + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());

    if (!(getActions().equals('')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 *
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
### equals(Object perm)

- **Return:** boolean
- **Description:** Returns true if the specified permission is the same as this one, false otherwise.

```java
boolean equals (Object perm);
```

### toString()

- **Return:** String
- **Description:** Returns a String representation of this permission.

```java
String toString();
```

---

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*m4/ax_func_which_gethostbyname_r.m4

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1 java/security/Permission@java/lang/Object@\njava/security/PermissionCollection@\njava/lang/String;

getActions()Ljava/security/PermissionCollection;
etString();

SignatureCLjava/lang/Enum<Lgnu/java/lang/CPStringBuilder;>;InnerClasses4$gnu/java/lang/String;
Permission@l@@
DO NOT EDIT THIS FILE - it is machine generated.

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission;
            }
        }
    }

    class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
    {
        AudioSecurityManager$Permission(::java::lang::String *, jint);
        public:
        static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
        static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
        static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
        static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
        static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
        private:
        static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
        public:
        static ::java::lang::Class class$;
    };
}
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Jan 21, 2002

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

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

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

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

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

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

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

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

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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.

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

That's all there is to it!
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 (dossers@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aggc@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.)

@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore

@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

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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.

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

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@enumerate 0
@item Definitions.

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@enumerate a
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@item 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
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@item
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@end enumerate

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```
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@group
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@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

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

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

@c man end
\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\"
Standard preamble:

Subsection heading
.br
.if t .Sp
.ne 5
.PP
$B$\$1$MR
.PP
..
.de Sp \^ Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \^ Begin verbatim text
.ft CW
.nf
.ne $\$1$
..
.de Ve \^ End verbatim text
.ft R
.fi
..
\^ Set up some character translations and predefined strings. \^(- will
\^ give an unbreakable dash, \^PI will give pi, \^L" will give a left
\^ double quote, and \^R" will give a right double quote. \^C+ will
\^ give a nicer C++. Capital omega is used to do unbreakable dashes and
\^ therefore won't be available. \^C- and \^C' expand to ` in nroff,
\^ nothing in troff, for use with C<>.
.tr \^W-
.ds C+ C\v'-1\v'\h'-1p's-2+\h'-1p'+s0\v'.1\v'\h'-1p'
.ie n \{
    .ds -- \^W-
    .ds PI pi
    .if (\n(.H=4u)&(1m=24u) .ds -- \^W\h'-12u\(^W\h'-12u\-'diablo 10 pitch
    .if (n(.H=4u)&(1m=20u) .ds -- \^W\h'-12u\(^W\h'-8u\-'diablo 12 pitch
    .ds L" "
    .ds R" "
    .ds C- "
    .ds C' "
"br"
.el\{
    .ds -- \}(em\}
    .ds PI \^p
    .ds L" "
    .ds R" "
"br"
}
Escape single quotes in literal strings from groff’s Unicode transform.
.ie \n(g .ds Aq \aq
.el .ds Aq ‘
A”
A” If the F register is turned on, we’ll generate index entries on stdout for
A” titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
A” entries marked with X<> in POD. Of course, you’ll have to process the
A” output yourself in some meaningful fashion.
.ie \nF \{
  . de IX
  . tm Index:\$1\t\n%\t”\$2”
--
  . nr % 0
  . rr F
A}
.el \{
  . de IX
--
A}
A”
A” Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
A” Fear. Run. Save yourself. No user-serviceable parts.
  A” fudge factors for nroff and troff
.if n \{
  . ds #H 0
  . ds #V .8m
  . ds #F .3m
  . ds #[ V1
  . ds #] \p
A}
.if t \{
  . ds #H ((1u-(\n(.fu%2u))*13m)
  . ds #V .6m
  . ds #F 0
  . ds #[ &
  . ds #] &
A}
  A” simple accents for nroff and troff
.if n \{
  . ds ‘ &
  . ds ` &
  . ds ^ &
  . ds . &
  . ds ~ ~
  . ds /
A}
.if t \{
  . ds ‘ \k:h’-(\n(.wu*8/10-*(#H)\nH")\n:u"
Open Source Used In Ultra Services Platform Version 6.10

IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"

"For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.
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.nh
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Sp
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Sp
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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

IP "1. Source Code." 4
IX Item "1. Source Code."
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making modifications to it. * Object code * means any non-source form
of a work.

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

Sp
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than the work as a whole, that (a) is included in the normal form of
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Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
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(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

Sp
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the work, and the source code for shared libraries and dynamically
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.IP "8. Termination." 4
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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */
/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix "."s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
#endif
( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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 */

By plainly marking modifications, something along the lines of adding to each
file that has been changed a "Modified by Foo Bar" line
underneath the "Written by" line would be adequate.

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
self.skipDirs = set()
self.skipExtensions = set()
self.fossilisedFiles = set()
self.ownFiles = set()

self.skipFiles |= set([
    '# Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    '# Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltSugar.m4',
    'ltversion.m4',
    'lt--obsolete.m4',
    'missing',
    'mkdep',
    'mkinstallDirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    '# Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    '# Skip imported texinfo files.
    'texinfo.tex',
])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'
')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
    if os.path.exists(base + '.in'):
        return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files
class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(  # 1: 'Copyright (C)', etc.
            '((\[Cc\]opyright'  #[Cc]opyrights+([Cc])')
            '[[Cc]\opyright\s+%s'  #[Cc]\opyrights\s+&copy;
            '[[Cc]\opyright\s+\@copyright{ ]'}
            '@copyright = u\''  #[Cc]\opyright\s+\@copyright[ ]'
            '@set\s+copyright[\w-]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*\(?:+ ranges + ',?'
            '@value\{[^{]*\}\s*')

        # 3: 'by ', if used
        '\(by\s+\)?'

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '(' + name + '('?:\s? + name + ')*)?')

        # A regexp for notices that might have slipped by. Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
        # HTML header markers, so check for 'copyright' and two digits.
        self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
            re.IGNORECASE)

        self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl '

        self.holders = { '@copying': '@copying' }
        self.holder_prefixes = set()
# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range(self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
assert not self.max_year
self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: '
                + after_years)
        return (False, orig_line, next_line)
    else:
# If it looks like the copyright is incomplete, add the next line.
while not self.is_complete (match):
    try:
        next_line = file.next()
    except StopIteration:
        break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
if not (line_filter and line_filter.match (line)):
    match = self.copyright_re.search (line)
    if match:
        res = self.update_copyright (dir, filename, filter,
                                   file, line, match)
        (this_changed, line, next_line) = res
        changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search (line):
        self.errors.report (pathname,
                             'unrecognised copyright: %s'
                             % line.strip())
        lines.append (line)
        line = next_line

    # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don’t recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n'
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
            )
        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            )
'ada',

# Handled separately.
'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be wrong by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set(['
    # Maintained by the translation project.
    '.po',
    # Automatically-generated.
    '.pot',
])

class LibGCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set(['
        # Imported from GLIBC.
        'soft-fp',
    ])

class LibJavaFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set(['
        # Handled separately.
        'testsuite',
        # Not really part of the library
        'contrib',
        # Handled separately.
        'classpath',
        'libltdl',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set(['
        # Handled separately.
        'testsuite',
    ])
class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',
            # The testsuite data files shouldn't be changed.
            'data',
            # Contains imported images
            'images',
            )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
            )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
              TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecrnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot
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@appendixsubsec Preamble
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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.

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

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

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

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

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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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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
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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.

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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.)

- 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.

- 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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```
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java/lang/Object
java/security/Guard
java/io/Serializable
serialVersionUID
ConstantValue
\(wQ~name\)java/lang/String;\(<init\>\)\(Ljava/lang/String;\);V
Code
()V
LineNumberTable
LocalVariableTable
this java/security/Permission;
checkGuard(java/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%&java/lang/SecurityManager()checkPermission(java/security/Permission;)V
obj java/lang/Object;sm java/lang/SecurityManager;implies(java/security/Permission;)Z
equals(java/lang/Object;)Z
hashCode()Ljava/lang/String;
getActions()Ljava/security/PermissionCollection;
toString().gnu/java/lang/CPStringBuilder;

>?
append("C")Lgnu/java/lang/CPStringBuilder;
BCD
getClass()Ljava/lang/Class;
FHG
java/lang/Class45
:J
K3(Ljava/lang/String;):Lgnu/java/lang/CPStringBuilder;
H
N6S
RT(java/lang/String01
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1.155 libcomerr2 1.42.13 :1ubuntu1.1

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Theodore Ts'o
23-June-2007

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=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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
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
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> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).
I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
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timeframe.

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GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

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

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

yes. go for it. thanks++

-a

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

On Sunday 05 October 2008, Alec Muffett wrote:
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> make the change now ?
> yes. go for it. thanks++

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 01 Oct 2007 16:59:49 +0000
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, 01 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helol=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-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=fixed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies 
of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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^L

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possible use to the public, we recommend making it free software that
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redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cracklib
Upstream-Contact: Nathan Neulinger <nneul@umr.edu>
Source: http://sourceforge.net/projects/cracklib

Files: *
Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>
    2005-2014 Nathan Neulinger <nneul@umr.edu>
    2008-2014 Jan Dittberner <jan@dittberner.info>
License: LGPL-2.1
Comment:
Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a detailed discussion and history see README-LICENSE.

Files: debian/*
Copyright: 1998 Jean Pierre LeJacq
    Martin Pitt <martin@piware.de>
    Jan Dittberner <jandd@debian.org>
License: LGPL-2.1

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-----------
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
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

-----Original Message-----
From: cracklib-devel-bounces@li...  
[mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger  
Sent: Monday, October 01, 2007 8:15 PM  
To: cracklib-devel@li...  
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.
=mike

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.
On Monday October 01, 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
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
> not GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application 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@gm...> - 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 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
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

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

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

We call this license the "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.

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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That's all there is to it!
1.160 libcryptsetup4:amd64 2:1.6.6 :5ubuntu2.1

1.160.1 Available under license:

1. Introduction

Kernels more recent than 2.6.12 have dropped support for devfs, which means that initrd-tools can no longer be used to boot into an encrypted root partition. Instead, a similar functionality has been developed for use with an initramfs-image.

2. A fresh installation

If you plan to perform a completely new installation of Debian onto a machine and to do so using an encrypted root partition, you might want to consider using a version of Debian Installer with partman-crypto (see http://wiki.debian.org/DebianInstaller/PartmanCrypto).

The installation will then take care of all the details and perform the necessary configuration for you, meaning that you should not have to read the rest of this document to get a machine with an encrypted root filesystem up and running.

However, if you are not planning to perform a new installation from scratch, the following information might be useful to you.

3. Requirements

In order to boot from an encrypted root filesystem, you need an initramfs-image which includes the necessary kernel modules and scripts to setup the root device after the kernel has been initialized, but before the rest of the operating system is booted.

To do so, you need two partitions:
- an unencrypted /boot partition
- an encrypted / partition

In addition, you need to have both initramfs-tools and busybox installed.

NOTE: You should make sure that your swap partition is either encrypted, or that you are using a swap file on an encrypted partition, as crypto keys and other sensitive information might otherwise be written out to the swap...
partition in unencrypted form.

4. Setup (regular dm-crypt)

---------------------------
First of all, you must edit /etc/crypttab and add a line describing your root device, for example:

cryptroot /dev/hda2 none cipher=aes-cbc-essiv:sha256,size=256,hash=sha256

This will allow cryptsetup to create /dev/mapper/cryptroot from the encrypted partition /dev/hda2 during boot.

In addition, you must also make sure that the root device is listed in /etc/fstab, for example:

/dev/mapper/cryptroot / ext3 defaults 0 1

This will allow the initramfs support scripts to know which of the devices in the crypttab that is the root device.

After doing these changes, you should regenerate the initramfs by running "initramfs-update -u", then make sure that your boot loader is configured to feed the initramfs to the kernel when booting. The kernel root argument should also be changed to /dev/mapper/cryptroot.

Now, reboot the machine, and if everything is correctly configured, you should be given a prompt to type in the passphrase for the encrypted root partition before the boot can continue.

NOTE: the initramfs scripts default to using the sha256 hash function while the plain cryptsetup binary defaults to using the ripemd160 hash function. In order to ensure that the crypto setup works in a consistent manner, you should make sure that the hash function is specified in the /etc/crypttab file if you are using regular dm-crypt (with LUKS the hash function to use is stored in the LUKS header).

5. Setup (using LUKS)

---------------------
If you are using the LUKS feature of cryptsetup, the above setup recipe should still apply, but since most options can be derived from the information stored in the LUKS header on-disk, the line to add to /etc/crypttab should look something like this:

cryptroot /dev/sda2 none luks
6. Exotic key types
-------------------
The above examples assume that you use a regular passphrase as the key to the
encrypted filesystem. However, if you wish to make use of more complex setups
(such as root-key-on-usb-memory), you can create a script which does all the
steps necessary to retrieve the key and then prints it to stdout.

Then add a keyscript=/path/to/your/script.sh to the options (fourth column) in
the above mentioned /etc/crypttab line, so that it looks something like this:

cryptroot /dev/sda2 none luks,keyscript=/usr/local/sbin/cryptkey

Next, regenerate your initramfs image. This will copy the script into the
initramfs image under the /keyscripts/ directory.

NOTE: there is a limited set of tools available when the script is executing
as part of the initramfs bootup, you have to make sure that you do not use
any tools which are not available or your script, and therefore boot, will
fail.

7. "cryptopts" boot argument
----------------------------
In general, you should use the above approach with a line describing your
root partition in /etc/crypttab and /etc/fstab. However, if for some reason
you wish to override the settings that are derived from these files and
stored in the initramfs image, you can use the "cryptopts" boot argument
(this *only* works for the root partition).

The format of cryptopts is:
cryptopts=<opt1>=<value1>,<opt2>=<value2>...

Beside the "hash", "size", "cipher" and "lvm" options that correspond to the
same options in the fourth field of /etc/crypttab, the options "target",
"source" and "key" are also supported. They correspond to the first, second
and third field of /etc/crypttab, respectively. See the crypttab man page
for further details.

Several "cryptopts" boot arguments can also be specified in case more than
one mapping needs to be setup in the initramfs stage of the boot.

Example boot arguments:
root=/dev/mapper/crypt0 cryptopts=target=crypt0,source=/dev/hda1,cipher=twofish

8. Resume device support
------------------------
The initramfs scripts will also try to automatically determine the devices,
if any, that are used for software suspend (swsusp, suspend2 or uswsusp) and
to set them up during the initramfs stage in order to allow suspend and resume in combination with encryption to keep the resume image safe from potential attackers.

If your resume device and your root partition use two different cryptsetup mappings, you might want to use the "decrypt_derived" keysctipt as described below.

9. The "decrypt_derived" keysctipt
----------------------------------
Assume that you have two entries in /etc/crypttab:

cryptroot /dev/hda1 none luks
cryptswap /dev/hda2 none luks

If cryptswap is used as your suspend/resume device, you'd normally need to enter two different passphrases during the boot, but the "decrypt_derived" script can generate the key for the second mapping using a hash of the key for the first mapping.

In short, you'll need to do something like the following to take advantage of the decrypt_derived script:

1) swapoff -a
2) cryptsetup luksClose cryptswap
3) edit /etc/crypttab and change the cryptswap line to e.g.: cryptswap /dev/hda2 cryptroot cipher=aes-cbc-essiv:sha256.size=256.hash=sha256,keyscript=/lib/cryptsetup/scripts/decrypt_derived,swap
4) /etc/init.d/cryptdisks start
5) Make sure that /dev/mapper/cryptswap has been created
6) swapon -a
7) (optional) update-initramfs -u

After you've followed the above steps, your swap device should be setup automatically after the root device has been setup during the boot stage.

WARNING: If you use the decrypt Derived keysctipt for devices with persistent data (i.e. not swap or temp devices), then you will lose access to that data permanently if something damages the LUKS header of the LUKS device you derive from. The same applies if you luksFormat the device, even if you use the same passphrase(s). A LUKS header backup, or better a backup of the data on the derived device may be a good idea. See the Cryptsetup FAQ on how to do this right.

Note: If you don't use suspend device support, it's better to use completely random keys for your encrypted swap device. See the section '2. Encrypted swap partition(s)' in /usr/share/doc/cryptsetup/README.Debian for information on how to setup this.
10. The "passdev" keyscript

If you have a keyfile on a removable device (e.g. a USB-key), you can use the passdev keyscript. It will wait for the device to appear, mount it read-only, read the key and then unmount the device.

The "key" part of /etc/crypttab will be interpreted as <device>::<path>::<timeout>, it is strongly recommended that you use one of the persistent device names from /dev/disk/*, e.g. /dev/disk/by-label/myusbkey.

This is an example of a suitable line in cryptsetup:

The above line would cause the boot to pause until /dev/disk/by-label/myusbkey appears in the fs, then mount that device and use the file /keys/root.key on the device as the key (without any hashing) as the key for the fs.

The timeout option has to be in seconds.

If any modules are required in order to mount the filesystem on the removable device, then initramfs-tools needs to be configured to add these modules to the initramfs. This can be done by listing the required modules in /etc/initramfs-tools/modules.

-- David H"rdeman <david@hardeman.nu>

decrypt_keyctl

A passphrase caching script to be used in /etc/crypttab on Debian and Ubuntu.
When there are multiple cryptsetup (either plain or LUKS) volumes with the same passphrase, it is an unnecessary task to input the passphrase more than once.

Just add this script as keyscript to your /etc/crypttab and it will cache the passphrase of all crypttab entries with the same identifier.

Either copy decrypt_keyctl into the default search path for keyscripts from cryptsetup /lib/cryptdisks/scripts/. So you can just write keyscript=decrypt_keyctl in /etc/crypttab, or use a random path of your choice and give the full path e.g keyscript=/sbin/decrypt_keyctl.

Requirements

------------------
- Debian cryptsetup package with /etc/crypttab handling and keyscript option
- Tested with Debian Lenny, Squeeze and Sid
- Installed and working keyutils package (keyctl)
- Needs CONFIG_KEYS=y in your kernel configuration

What For?
--------

The current state for dm-crypt in Linux is that it is single threaded, thus every dm-crypt mapping only uses a single core for crypto operations. To use the full power of your many-core processor it is thus necessary to split the dm-crypt device. For Linux software raid arrays the easiest segmentation is to just put the dm-crypt layer below the software raid layer.

But with a 5 disk raid5 it is a rather daunting task to input the passphrase five times. This is what this keyscreens solve for you.

Usage
-----

Best shown by example:
- 5 disks
- Linux software raid5

Layer:

<table>
<thead>
<tr>
<th>sda</th>
<th>sdb</th>
<th>sdc ... sde</th>
</tr>
</thead>
<tbody>
<tr>
<td>+---+</td>
<td></td>
<td>+---+</td>
</tr>
<tr>
<td></td>
<td>LUKS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+---+</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RAID5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>...</td>
</tr>
</tbody>
</table>

Crypttab Entries:

```
<target>  <source>  <keyfile>  <options>
sda_crypt /dev/sda2  main_data raid  luks,keyscript=decrypt_keyctl
sdb_crypt /dev/sdb2  main_data raid  luks,keyscript=decrypt_keyctl
...  
sde_crypt /dev/sde2  main_data raid  luks,keyscript=decrypt_keyctl
```

How does it work
-----------------

Crypttab Interface:
A keyscript is added to options including a keyfile definition as third parameter in the crypttab file. The keyscript is called with the keyfile as the
first and only parameter. Additionally there are a few environment variables set but currently are not used by this keysctipt (man 5 crypttab for exact description).

Keyscript:
Keyctl_keysctipt uses the Linux kernel keyring facility to securly cache passphrases between multiple invocations.
The keyfile parameter from cryptab is used to find the same passphrase between multiple invocations.

Currently the cache timeout is 60 seconds and not configurable (please report a bug if it is too low for you).

Problems
-------

- Passphrase is piped between processes and could end up in unsecured memory, thus later swapped to disk!
  => Use of cryptoswap recommend!

Hints
-----

To remove all traces of this keysctipt you may want to cleanup the keyring completely with the following command afterwards:
  sudo keyctl clear @u

openct with cryptsetup and luks in Debian
-----------------------------------------

This is a overview on how you can make use of cryptsetup with your smartcard device supported by openct. Please make sure that your smartcard reader or token is supposed to be operated with openct and not with opensc or pcsd. You can get some information about the supported hardware by openct at the following homepage:

<http://www.opensc-project.org/openct/>

This example is based on the ability of openct to store arbitrary data objects on the smartcard. Note that you therefore have to use openct in version 0.6.12 or newer, any versions before 0.6.12 do not properly support data objects.

Although this use case was done with the Aladdin eToken PRO 32k, an USB crypto token, this is a generic approach which works the same way with all supported smartcard devices by openct.
First of all, you should plug in your crypto token into USB or whatever interface it uses and initialise the reader with the following command (as root):

```
# openct-control init
```

To check if your reader has been detected, you can run:

```
# openct-tool list
```

This should give you a similar result to this:

```
0 Aladdin eToken PRO
```

If you do not see any reader listed, you have a problem and should read again about the supported hardware on <http://www.opensc-project.org/openct/> and make sure you have the required support (e.g. USB) compiled into your kernel needed to connect to your token. If you use a pre-compiled kernel from Debian, everything is already built kernel-wise and you probably only need to load the module.

In case you want to erase your previously used smartcard, you can do that by executing the following command:

```
# pkcs15-init --erase-card
```

To setup the smartcard, you need to do the following:

```
# pkcs15-init --create-pkcs15
```

Caution: You are being asked about the 'Security Officer PIN' and the 'User unblocking PIN'. Although both of these pins are optional and can be left empty, you should never do this: In case the personal user pin is typed wrong for a given number (mostly three times), the smartcard is locked and can only be unlocked with the user unblocking pin. If you even mistype the user unblocking pin for a given number (mostly three times), the smartcard is locked and can only be unlocked with the security officer pin, which is the most superior pin in this hierarchy. With an unset (empty) security officer pin or user unblocking pin, depending on the smartcard, an attacker can have unlimited tries to crack your personal user pin, or, an attacker can simply make the smartcard unusable as it cannot be unlocked anymore at all.

To create a new identity on the smartcard, do the following:

```
# pkcs15-init --store-pin --auth-id 01 --label "Daniel Baumann"
```

If you have already one or more identities, you certainly want to bump the auth-id here, and normally, the label used to describe the identify is the persons first and last name.
As we want to use the smartcard with luks, we first need to get some random data:

```
# dd if=/dev/random of=data.txt bs=1 count=32
```

And we store that random data as a data object to the private section of the smartcard with:

```
# pkcs15-init --store-data data.txt --auth-id 01
```

As of the time of writing, openct version 0.6.12 is available and does not support labelling different data objects. Once this gets fixed in openct upstream, you can store multiple data objects to the smartcard (create them by appending '--label foo' to the above command and replace foo with the label you want to use).

Then, read the random data from the smartcard in order...

```
# pkcs15-tool --read-data-object pkcs15-init -o /proc/self/fd/3 3>&1 1>/dev/null 2>&1
# pkcs15-tool --read-data-object pkcs15-init -o key.txt 1>/dev/null 2>&1
```

...to import that output to luks as a valid key (assumed that /dev/sda5 is your encrypted partition):

```
# cryptsetup luksAddKey /dev/sda5 key.txt
```

To tell cryptsetup to let you authenticate with the openct backend, you need to pass the respective decrypt script to it as a parameter in /etc/crypttab (assumed that /dev/sda5 is your encrypted partition):

```
sda5_crypt /dev/sda5 none luks,keyscript=/lib/cryptsetup/scripts/decrypt_openct
```

At the moment all data objects have the same label 'pkcs15-init'. Once openct supports labelling data objects, you can pass the respective label to openct with the key parameter in /etc/crypttab like this:

```
sda5_crypt /dev/sda5 none luks,keyscript=/lib/cryptsetup/scripts/decrypt_openct,key=foo
```

For the time being, 'pkcs15-init' is passed to openct when no key is specified.

Don't forget to backup key.txt to a save place and remove the temporary files afterwards:

```
# shred -uz key.txt data.txt
```

Caution: cryptsetup as of version 1.0.5-1 does not support fallback to passphrase if smartcard authentication fails (be it three times wrong pin or not
compatible/not detected smartcard reader). That means, that for testing purposes, it is recommended to keep an initrd image in /boot available which does *not* use openc or opensc for authentication, so that you can change your bootloader configuration on the fly if something does not work out as expected. Therefore, copy your current initrd (the .bak backups from initramfs-tools can maybe get overwritten by update-initramfs during the setup of openc, so it is better to be on the save side):

```bash
# cp /boot/initrd.img-`uname -r` /boot/initrd.img-`uname -r`.temp
```

If you have completed all the steps up to now, you can update your initramfs image with:

```bash
# update-initramfs -u -k `uname -r`
```

and reboot your machine.

-- Daniel Baumann <baumann@swiss-it.ch>  Wed, 22 Aug 2007 10:36:00 +0200

opensc/pcscd with cryptsetup and LUKS on Debian

This is an overview on how you can make use of cryptsetup with your smartcard device supported by opensc/pcscd. If your reader is supported by openc please refer to the README.openct.gz in the cryptsetup docs.

I assume that you already have an initialized smartcard with a RSA key that has the proper X509 properties for encryption set. To generate such a key in hardware on the smartcard you should execute the following command:

```bash
# pkcs15-init -G rsa/2048 -a [PIN id] -u sign,decrypt
```

If your smart card doesn't support 2048 bit RSA just change the argument to the largest size possible.

The decrypt_opensc keyscript decrypts an encrypted key in your boot partition with the private key on your smartcard. Therefore you have to create a key for the partition that is to be decrypted using the smartcard. As pkcs15-crypt does not seem to support PKCS1 padding, the key is required to have the same size as your RSA key. For a 2048 bit key use the following (the byte count is 256 as 2048/8 is 256):

```bash
# dd if=/dev/random of=/boot/keys/key bs=1 count=256
```

Now the key is added to the LUKS partition:

```bash
# cryptsetup luksAddKey /dev/sdXn /boot/keys/key
```
Enter an already existing pass phrase and watch cryptsetup doing its job. As we don't want the key in clear on the hard drive, we are going to encrypt it with the public key to the key on the smartcard.

Read the public key first:

```
# pkcs15-tool --read-public-key [key id] -o pubkey
```

Then encrypt the random data with the extracted key, destroy the plain text one and remove your public key from the hard drive (it isn't necessary to shred it as a potential attacker can't use your public key for anything).

```
# openssl rsautl -in /boot/keys/key -inkey pubkey -pubin -raw -encrypt -out /boot/keys/root
# shred -u /boot/keys/key
# rm -rf pubkey
```

Now you'll have to edit /etc/crypttab. The format should be familiar but I'll state it here again:

```
name device /boot/keys/root luks, keyscript=/lib/cryptsetup/scripts/decrypt_opensc
```

The modules needed by the reader should now be added to /etc/initramfs-tools/modules, so they are loaded on boot time. For example yenta_socket, pcmcia, pcmcia_core, serial_cs, rsr_c_nonstatic for PCMCIA card readers.

In a perfect world you would just rebuild the initramfs now and it would work. Unfortunately there are some additional issues to address. The most important one is pcscd. Newer versions of pcscd use HAL and dbus to detect readers. As most people (including me) aren't too enthusiastic about adding these two daemons to the initramfs, we will rebuild the daemon to use the traditional polling method with libusb. Again, this step is only necessary if your reader uses pcscd (for example the Gemalto PC Card readers).

To do this, download the ccid and pcsc-lite packages from

<pcsc-lite.alioth.debian.org>

Install the libusb header files, extract the tarballs and build pcscd with the following commands:

```
# apt-get install libusb-dev
# ./configure --disable-libhal --enable-libusb
# make
# make install
```
Now go to the ccid directory and execute these commands (the option is only need if you use the libccidtwin.so to access your reader:

```
# ./configure [--enable-twinserial]
# make
# make install
```

This installs the new pcsd and it's libraries in /usr/local/. To reflect the new situation we have to change the initramfs scripts. Edit /etc/reader.conf to instruct pcsd to use the new libraries (they should be in /usr/local/pcsc/drivers/) instead of the ones from the Debian package. Replace everything after line 45 in /usr/share/initramfs-tools/hooks/cryptopensc with the following chunk:

```
for dir in etc/opensc usr/local/pcsc var/run tmp ; do
  if [ ! -d ${DESTDIR}/${dir} ] ; then mkdir -p ${DESTDIR}/${dir} ; fi
done
```

```
# Install pcsd daemon, drivers, conf file, and include libgcc as well since
# pcsd utilizes pthread_cancel
copy_exec /usr/local/sbin/pcscd
cp -r /usr/local/pcsc ${DESTDIR}/usr/local
cp /etc/reader.conf ${DESTDIR}/etc
cp -r /usr/local/lib ${DESTDIR}/usr/local
# Install opensc commands and conf file
copy_exec /usr/bin/opensc-tool
copy_exec /usr/bin/pkcs15-crypt
cp /lib/libgcc_s.so.1 ${DESTDIR}/lib
cp /etc/opensc/opensc.conf ${DESTDIR}/etc/opensc
```

```
Edit /usr/share/initramfs-tools/scripts/local-bottom/cryptopensc and /usr/share/initramfs-tools/scripts/local-top/cryptopensc to use the new binary in /usr/local/sbin/pcscd instead of /usr/sbin/pcscd and change the path in the existence test to:

```
if [ ! -e /usr/local/sbin/pcscd ] ; then
  exit 0
fi
```

If you have completed all the steps up to now, you can update your initramfs image with:

```
# update-initramfs -u -k `uname -r`
```

and reboot your machine. This leaves a backup of your old initramfs in the boot partition if something doesn't work. If you have to debug your initramfs during boot just append the "break=mount" option to the kernel
to have a debug shell just before the root partition would be mounted.

-- Benjamin Kiessling <benjaminkiessling@bttec.org>, Sun, 26 Jul 2009
unlocking rootfs via ssh login in initramfs
-------------------------------------------
You can unlock your rootfs on bootup from remote, using ssh to log in to the booting system while it's running with the initramfs mounted.

Setup
-----

For remote unlocking to work, the following packages have to be installed before building the initramfs: dropbear busybox

The file /etc/initramfs-tools/initramfs.conf holds the configuration options used when building the initramfs. It should contain BUSYBOX=y (this is set as the default when the busybox package is installed) to have busybox installed into the initramfs, and should not contain DROPBEAR=n, which would disable installation of dropbear to initramfs. If set to DROPBEAR=y, dropbear will be installed in any case; if DROPBEAR isn't set at all, then dropbear will only be installed in case of an existing cryptroot setup.

The host keys used for the initramfs are dropbear_dss_host_key and dropbear_rsa_host_key, both located in /etc/initramfs-tools/etc/dropbear/. If they do not exist when the initramfs is compiled, they will be created automatically. Following are the commands to create them manually:

```
# dropbearkey -t dss -f /etc/initramfs-tools/etc/dropbear/dropbear_dss_host_key
# dropbearkey -t rsa -f /etc/initramfs-tools/etc/dropbear/dropbear_rsa_host_key
```

As the initramfs will not be encrypted, publickey authentication is assumed. The key(s) used for that will be taken from /etc/initramfs-tools/root/.ssh/authorized_keys. If this file doesn't exist when the initramfs is compiled, it will be created and /etc/initramfs-tools/root/.ssh/id_rsa.pub will be added to it. If the latter file doesn't exist either, it will be generated automatically - you will find the matching private key which you will later need to log in to the initramfs under /etc/initramfs-tools/root/.ssh/id_rsa (or id_rsa.dropbear in case you need it in dropbear format). Following are the commands to do the respective steps manually:

To create a key (in dropbear format):

```
# dropbearkey -t rsa -f /etc/initramfs-tools/root/.ssh/id_rsa.dropbear
```

To convert the key from dropbear format to openssh format:
# /usr/lib/dropbear/dropbearconvert dropbear openssh \/etc/initramfs-tools/root/.ssh/id_rsa.dropbear \/etc/initramfs-tools/root/.ssh/id_rsa

To extract the public key:

```bash
# dropbearkey -y -f /etc/initramfs-tools/root/.ssh/id_rsa.dropbear | \
grep "^ssha-rsa " /etc/initramfs-tools/root/.ssh/id_rsa.pub
```

To add the public key to the authorized_keys file:

```bash
# cat /etc/initramfs-tools/root/.ssh/id_rsa.pub >> /etc/initramfs-tools/root/.ssh/authorized_keys
```

In case you want some interface to get configured using dhcp, setting DEVICE= in 
/etc/initramfs-tools/initramfs.conf should be sufficient. The initramfs should 
also honour the ip= kernel parameter. 
In case you use grub, you probably might want to set it in /boot/grub/menu.lst, 
either in the '# kopt=' line or appended to specific 'kernel' line(s). 
The ip= kernel parameter is documented in Documentation/nfsroot.txt in the 
kernel source tree.

Issues
------

Don't forget to run update-initramfs when you changed the config to make it 
effective!

Collecting enough entropy for the ssh daemon sometimes seems to be an issue. 
Startup of the ssh daemon might be delayed until enough entropy has been 
retrieved. This is non-blocking for the startup process, so when you are at the 
console you won't have to wait for the sshd to complete its startup.

Unlocking procedure
---------------------

To unlock from remote, you could do something like this:

```bash
# ssh -o "UserKnownHostsFile=~/.ssh/known_hosts.initramfs" \ 
-i "~/.id_rsa.initramfs" root@initramfs@host.example.com \ 
"echo -ne \"secret\" >/lib/cryptsetup/passfifo"
```

This example assumes that you have an extra known_hosts file 
"~/.ssh/known_hosts.initramfs" which holds the cryptroot system's host-key, 
that you have a file "~/.id_rsa.initramfs" which holds the authorized-key for 
the cryptroot system, that the cryptroot system's name is
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concluded that weaker conditions might promote sharing better.

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

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

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

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<OL TYPE="a">

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<P>

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cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
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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 
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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 
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<one line to give the program's name and a brief idea of what it does.>

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The hypothetical commands `show w' and `show c' should show the appropriate
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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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[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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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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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
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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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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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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:

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

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

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

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

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be optional: if the application does not supply it, the square
root function must still compute square roots.)

</OL>

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`show c'; they could even be mouse-clicks or menu items--whatever
suits your program.

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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

Signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

Version 2, June 1991

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

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

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

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

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

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<OL TYPE="a">

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<P>

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<P>

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charge to all third parties under the terms of this License.

<P>

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table of data to be supplied by an application program that uses
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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.

<P>(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.)

</OL>

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<P>
<OL TYPE="a">
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<P>
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<P>
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</OL>

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<OL TYPE="a">
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<P>
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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program’s name and a brief idea of what it does.>  
Copyright (C) 19yy  <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) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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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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proprietary programs. If your program is a subroutine library, you may
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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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.

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

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

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

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

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</ol>

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
conceived and contributed by Rob Butler.

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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*
**************************************************************************/

/**
 * @file
 * Hash implementation.
 *
 * This file provides a hash implementation that is capable of dealing
 * with collisions. It stores colliding entries in linked list. All
 * functions operating on the hash return an iterator. The iterator
 * itself points to the collision list. If there wasn't any collision
 * the list will have just one entry, otherwise client code should
 * iterate over the entries to find the exact entry among ones that
 * had the same key (e.g. memcmp could be used on the data to check
 * that)
 *
 * @author Zack Rusin <zackr@vmware.com>
 */

#ifndef UTIL_HASH_H
#define UTIL_HASH_H

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <stdbool.h>
#include "libdrm_macros.h"

struct util_hash;

#endif  // UTIL_HASH_H
struct util_node;

struct util_hash_iter {
    struct util_hash *hash;
    struct util_node *node;
};

drm_private struct util_hash *util_hash_create(void);
drm_private void util_hash_delete(struct util_hash *hash);

/**
 * Adds a data with the given key to the hash. If entry with the given
 * key is already in the hash, this current entry is inserted before it
 * in the collision list.
 * Function returns iterator pointing to the inserted item in the hash.
 */
drm_private struct util_hash_iter
util_hash_insert(struct util_hash *hash, unsigned key, void *data);

/**
 * Removes the item pointed to by the current iterator from the hash.
 * Note that the data itself is not erased and if it was a malloc'ed pointer
 * it will have to be freed after calling this function by the callee.
 * Function returns iterator pointing to the item after the removed one in
 * the hash.
 */
drm_private struct util_hash_iter
util_hash_erase(struct util_hash *hash, struct util_hash_iter iter);

drm_private void *util_hash_take(struct util_hash *hash, unsigned key);

drm_private struct util_hash_iter util_hash_first_node(struct util_hash *hash);

/**
 * Return an iterator pointing to the first entry in the collision list.
 */
drm_private struct util_hash_iter
util_hash_find(struct util_hash *hash, unsigned key);

drm_private int util_hash_iter_is_null(struct util_hash_iter iter);
drm_private unsigned util_hash_iter_key(struct util_hash_iter iter);
drm_private void *util_hash_iter_data(struct util_hash_iter iter);
1.171 libdrm2:amd64 2.4.91 :2~16.04.1

1.172 libdumbnet1:amd64 1.12 :7

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7736
**1.173 libedit2 3.1 :20150325-1ubuntu2**

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1.174 libelasticsearch1.7-java 1.7.3+dfsg :3

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</additionalHeaders>
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The script extract license information out of logstash project
First it will use license information out of gem object.
If that is not available, it will try to print out the license file

require 'rubygems'
require 'bundler/setup'
require 'yaml'

# get all local installed gems
def all_installed_gems
  Gem::Specification.all = nil
  all = Gem::Specification
  Gem::Specification.reset
  all
end

all_installed_gems.select { |y| y.gem_dir.include?('vendor') }.sort{|v,u|v.name <=> u.name}.each do |x|
  puts '='*80 #seperator
  if(x.license) #ah gem has license information
    puts "%s,%s,%s,%s,%s"%[x.name, x.version, x.license, x.homepage, x.email]
  else
    puts "%s,%s,%s,%s"%[x.name, x.version, x.homepage, x.email]
    license_file = Dir.glob(File.join(x.gem_dir,'LICENSE*')).first #see if there is a license file
    if(license_file)
      file = File.open(license_file, 'r')
      data = file.read
      file.close
      puts data
    else
      #no license file,. try to print some gem information
      puts 'No License File'
      puts x.gem_dir
      puts x.files.join("\n")
    end
  end
end
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The original packager is Adam Di Carlo <aph@debian.org>, later Ardo van Rangelrooij <ardo@debian.org> maintained the package. Now Laszlo Boszormenyi (GCS) <gcs@debian.org> looks after it.

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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
2e1cee529cb59e9341afe0443f196a1 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

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): 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

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.
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

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2c9 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 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d8ff51a88a045db233418dd73fbe 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
2e1cee529eb59c9341afe0443f196a1 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

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

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):

**1.180 libffi6 3.2.1 :4**

**1.180.1 Available under license:**
This package was debianized by Matthias Klose <doko@debian.org>
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It was downloaded from ftp://sourceware.org/pub/libffi/

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1.181 libfontconfig1:amd64 2.11.94 :0ubuntu1.1
1.181.1 Available under license:

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It was downloaded from http://www.fontconfig.org/

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1.182 libfreetype6:amd64 2.6.1 :0.1ubuntu2.4

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#
src/bdf/bdf.c
src/bdf/bdf.h
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src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
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src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
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src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/zconf.h
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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

Hopefully that text is self-explanatory. If it isn't, you need to speak to your lawyer, or the Free Software Foundation.

The Documentation: GPL, FDL

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For documentation generated by doxygen or other automated tools via processing source code comments and markup, the original source code license applies to the generated files. Thus, the doxygen documents are licensed GPL.

If you plan on making copies of the documentation, please let us know. We can probably offer suggestions.

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
```python
    string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
```

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
if filename in self.fossilised_files:
    return True

# Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
    return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:\-0-9,\s]+[s+and{s+}]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,\-]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(r'
            # 1: 'Copyright (C)', etc.
            '([Cc]\copyright')
            '[([Cc]\copyright\s+\{([Cc]\})]\)'
            '[([Cc]\copyright\s+%s'  # 2: the years. Include the whitespace in the year, so that
            '[([Cc]\copyright\s+&copy;\)'  # we can remove any excess.
            '[([Cc]\copyright\s+@copyright{ }]'  # 3: 'by ', if used
            '[copyright = u"'  # (by\s+)?'
            '[@set\s+copyright\[w-]+)']
            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
'(' + name + '(?:\s?' + name + ')*)?')

# A regexp for notices that might have slipped by. Just matching # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of # HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying'
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
self.holders[holder] = canon_form
index = holder.find (' ')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year) for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end ():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
       + canon_form
       + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
       + ('' if intro.startswith ('copyright = ') else ' ')
       + canon_form + self.separator
       + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
else:
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter, 
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname, 
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' 
                                      % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '
')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):


def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([#
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([#
        # Better not create a merge nightmare for the GNAT folks.
        'ada',
        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([#
        # Maintained by the translation project.
        '.po',
        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([#
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([#
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

        def skip_file(self, dir, filename):
            ...
# g++.niklas/README contains historical copyright information
# and isn't updated.
if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
  return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__ (self):
  GenericFilter.__init__ (self)

  self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
  ])

class LibGCCFilter (GenericFilter):
def __init__ (self):
  GenericFilter.__init__ (self)

  self.skip_dirs |= set ([
    # Imported from GLIBC.
    'soft-fp',
  ])

class LibJavaFilter (GenericFilter):
def __init__ (self):
  GenericFilter.__init__ (self)

  self.skip_dirs |= set ([
    # Handled separately.
    'testsuite',

    # Not really part of the library
    'contrib',

    # Imported from upstream
    'classpath',
    'libltdl',
  ])

def get_line_filter (self, dir, filename):
  if filename == 'NameDecoder.h':
    return re.compile ('.*NAME_COPYRIGHT')
  if filename == 'ICC_ProfileName.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnattools')
    self.add_dir ('include')
    self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
  namespace java
  {
    namespace security
    {
      class Permission;
      class PermissionCollection;
    }
  }
}

class java::security::Permission : public ::java::lang::Object
{
  public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
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  private:
    static const jlong serialVersionUID = -563657022231596674LL;
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";


public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            haveValidTag = true;
        }
        return haveValidTag ? toString(tags) : null;
    }
}
if (tags[i].text().length() > 0) {
    haveValidTag = true;
}
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

/*1-*/
java/util/Map+,put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;tagletMapLjava/util/Map;copyrightTagletToString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
506*([Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?>java/lang/String@A.length()Ljava/lang/StringBuffer
BF<dl>
BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©" + tags[i].text() + "</i></dt>");
}
else {return null;}
}

if+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisNewInlineTagregister(Ljava/util/Map;)V

/*1-*/
7.;?,C,G,K,O!,S"QYS$L*+%"WWXY-. 
/01A
Permission.java -- The superclass for all permission objects


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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
This class is the abstract superclass of all classes that implement
the concept of a permission. A permission consists of a permission name
and optionally a list of actions that relate to the permission. The
actual meaning of the name of the permission is defined only in the
context of a subclass. It may name a resource to which access permissions
are granted (for example, the name of a file) or it might represent
something else entirely. Similarly, the action list only has meaning
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is `implies()`. This
checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

`Permission`'s must be immutable - do not change their
state after creation.

@since 1.1
@status updated to 1.4

```java
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 */
private String name;

/**
 * Create an instance with the specified name.
 */
public Permission(String name) {

this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* @param obj the object to compare to
* @return true if obj equals this
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that <code>equals</code> considers to be the same.
* @return a hash value
*/
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>.  
 *  
 * @return the name  
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>.  The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *  
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined.  Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.  
 *  
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object.  This is in the format:
 * <code>"(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')"</code>.  
 *  
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    
    string = string.append('(');
    
    CPStringBuilder string = new CPStringBuilder();
    ;
```java
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!getActions().equals('""'))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * *
 * @version 0.0
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * *
 * @param perm The permission to check for equality
 * *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
 boolean equals (Object perm);

 /**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * *
 * @return A <code>String</code> representing this permission.
 */
 String toString();
}

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*m4/ax_func_which_gethostbyname_r.m4*

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That's all there is to it!

Java/security/acl/Permission.java
SourceFilePermission.java

Java/sound/AudioSecurityManager$Permission.java

AudioSecurityManager$Permission

AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[L;gnu/javasound/AudioSecurityManager$Permission;<clinit>()VCode

AudioSecurityManager.java

SignatureCL;gnu/javasound/AudioSecurityManager$Permission;>InnerClasses4Sgnu/javasound/AudioSecurityManager
// DO NOT EDIT THIS FILE - it is machine generated.

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
Jan 21, 2002

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That's all there is to it!
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 Dossler (dossler@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefsdetlefss@src.dec.com also provided several generic bug fixes.
Alistair G. Crooks(age@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.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
c man end
c man begin COPYRIGHT
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c man end
display
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\tr \W-
\ds C+ C\l\h'1p\h'1p\s-2+\h'1p'\s0\h'1v\h'1p'
\ie n \{
  . ds -- \W-
  . ds PI pi
  . if (n.H=4u)&(1m=24u) .ds -- \W\h'12u\h'12u'\s0\h'1v\h'1p'
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  . ds L" "
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\el\{
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8147
"br\}
\v"  
\v Escape single quotes in literal strings from groff's Unicode transform.
.ie '\n(.g .ds Aq \|aq 
.el .ds Aq ' 
\v"  
\v If the F register is turned on, we'll generate index entries on stderr for
\v titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
\v entries marked with X<> in POD. Of course, you'll have to process the
\v output yourself in some meaningful fashion.
.ie \nF \\  
. de IX  
. tm Index:\$1\t\n\%"\$2"  
..  
. nr % 0  
. rr F  
\v}  
.el \v}  
. de IX  
..  
\v}  
\v"  
\v Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\v" Fear. Run. Save yourself. No user-serviceable parts.
. \v" fudge factors for nroff and troff  
.if n \v}  
. ds #H 0  
. ds #V .8m  
. ds #F .3m  
. ds #[ \s  
. ds #] \P  
\v}  
.if t \v}  
. ds #H ((\v'n(.fu%2u))*1.3m)  
. ds #V .6m  
. ds #F 0  
. ds #\&  
. ds #\&  
\v}  
. \v" simple accents for nroff and troff  
.if n \v}  
. ds `\&  
. ds `\&  
. ds ^ \&  
. ds , \&  
. ds ~ ~  
. ds /  
\v}
...
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Version 3.1, 31 March 2009

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte"t"
#define ASM_SHORT "t.word"t"
#define ASM_LONG "t.long"t"
#define ASM_QUAD "t.quad"t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line 
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, \".space \"HOST_WIDE_INT_PRINT_UNSIGNED\\n\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line 
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (\".comm \", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), \",%u\\n\", (int)(ROUNDED)))

/* This says how to output an assembler line 
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (\".lcomm \", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), \",%u\\n\", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (\".lcomm \", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), \",%u,%u\\n\", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), \".align %d\\n\", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
sprintf ((BUF), \"*%s%ld\", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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*m4/ax_func_which_gethostbyname_r.m4

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#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
# Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

# Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltsgua...
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
return True
if os.path.exists (base + '.in'):
    return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9][?[-0-9,.\s]\s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w[-.]*'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright'  
            '[(Cc]opyrights+\((Cc)])'  
            '[(Cc]opyright%\s'  
            '[(Cc]opyrights+&copy:'  
            '[(Cc]opyrights+@copyright\ ]'  
            'copyright = ul'  
            '@set\s+copyright\[w-\+]'  
            '
        # 2: the years.  Include the whitespace in the year, so that
# we can remove any excess.
'\(\texttt{(?:: + ranges + .?)}\)
'[@value\{[^{}]*\}@s*]'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'\( + name + (?:\s? + name + *)\)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', ',
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year
def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
holder = match.group(4)
return (holder
    and (holder not in self.holder_prefixes
         or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set:
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match

            holder = match.group(4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author(dir, filename):
                assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s' % line.strip())
                    lines.append (line)
                    line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
        if self.use_quilt:
            subprocess.call (['quilt', 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange(len(subdirs) - 1, -1, -1):
    if filter.skip_dir(dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file(dir, filename):
        sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
    else:
        self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter = GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option = None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...%n
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
        sys.stdout.write('Directories:
')
        format = '%-25s  
'
        for (dir, filter) in self.dirs:
            i += 1
            sys.stdout.write(format % (dir, filter))
if i % 3 == 0 or i == len(self.dirs):
    sys.stdout.write (dir + '\n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)

    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)

                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)

            sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])

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def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])

        self.skip_dirs |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',
        ])
return re.compile ('// \(C\) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)

    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
    self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter Dimov')
    self.add_external_author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Unicode, Inc.')
    self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
  namespace security
  {
   class Permission;
   class PermissionCollection;
  }
 }
}

class java::security::Permission : public java::lang::Object
{

public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *);
  virtual jboolean implies(::java::security::Permission *) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

// DO NOT EDIT THIS FILE - it is machine generated -.*- c++ -.*-

 ifndef __java_security_acl_Permission__
 
define __java_security_acl_Permission__

 #pragma interface

 #include <java/lang/Object.h>
 extern "Java"
 {
     namespace java
     {
         namespace security
         {
             namespace acl
             {
                 class Permission;
             }
         }
     }
     class java::security::acl::Permission : public ::java::lang::Object
     {

 public:
     virtual jboolean equals(::java::lang::Object *) = 0;
     virtual ::java::lang::String * toString() = 0;
     static ::java::lang::Class class$;
     } __attribute__((java_interface));

 #endif // __java_security_acl_Permission__
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
if (tags.length == 0) {
    return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>\n            }
        }
        result.append("</dl>");
        return result.toString();
    } else {
        return null;
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValue	copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
(&*)
java/util/Map+.put8(Ljava/lang/Object:Ljava/lang/Object;Ljava/lang/Object;
tagletMapjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
g506*([Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?\r\njava/lang/String@Alength()ICHava/lang/StringBuffer
BF<dl>
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KPQ(Ljava/lang/String;)V
KSTT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V</i></dt>
KX0Z</dl>
/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     * 
     * @serial the name of the permission
     */
    private String name;

* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
*
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>"(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')"</code>.
*
* @return this object as a <code>String</code>
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals('')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * 
     * @param perm The permission to check for equality
     * 
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * 
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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*m4/ax_func_which_gethostbyname_r.m4*

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ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
9%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString(gnu/java/lang/CPStringBuilder;
:
.:?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
?J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]^*n
XM,,*n
q **+
":-012345/657895S:Y<L+(=L+*AEIL+=L+*LIL*L+*MOQ+=L+*MIL+=L+U*
"+7>GNSKWXYZ
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javax/sound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[Lgnu/javax/sound/AudioSecurityManager$Permission;<clinit
>()VCode
<init>(Ljava/lang/String;)IV
LineNumberTableLocalVariableTable
thisvalues4) Lgnu/java/lang/sound/AudioSecurityManager$Permission;
$&%java/lang/System"(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/java/lang/sound/AudioSecurit
yManager$Permission;
)$.5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/java/lang/CPStringBuilder;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/java/lang/CPStringBuilder;
:EAYYYYYYSYSYS
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{

namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:

static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:

static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:

static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
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That's all there is to it!
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 Cridilig (Regis.Cridilig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
" Standard preamble:
Set up some character translations and predefined strings. \texttt{\textbackslash(-} will give an unbreakable dash, \texttt{\textbackslash}PI will give pi, \texttt{\textbackslash}L will give a left double quote, and \texttt{\textbackslash}R will give a right double quote. \texttt{\textbackslashC+} will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won’t be available. \texttt{\textbackslashC-} and \texttt{\textbackslashC'} expand to \textbackslash' in nroff, nothing in troff, for use with C++.

\texttt{\textbackslash}Escape single quotes in literal strings from groff’s Unicode transform.

\texttt{\textbackslash.aq}
If the F register is turned on, we’ll generate index entries on stderr for
titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
entries marked with X<> in POD. Of course, you’ll have to process the
output yourself in some meaningful fashion.

```
\ifn
\indent\xdef F \{
  \ifn
    \def \#H \((1u-((\\n(.fu%2u))*1.13m)
    \def \#V .6m
    \def \#F 0
    \def \#[ \&
    \def \#] \&
  \} \}
  \xdef t \{
    \xdef ' \&
    \xdef ` \&
    \xdef ^ \&
    \xdef , \&
    \xdef ~ ~
    \xdef / \&
  \}
  \xdef n \{
    \xdef \\&
    \xdef \^ \&
    \xdef , \&
    \xdef \~ \~
    \xdef / \&
  \}
\} \}
\fi
```

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
Fear. Run. Save yourself. No user-serviceable parts.

```
\ifn
\indent\xdef \#H 0
\indent\xdef \#V .8m
\indent\xdef \#F .3m
\indent\xdef \[ \f1
\indent\xdef \] \fP
\} \}
\fi
```

```
\ifn \{
  \indent\xdef \#H ((1u-((\\n(.fu%2u))*1.13m)
  \indent\xdef \#V .6m
  \indent\xdef \#F 0
  \indent\xdef \[ \&
  \indent\xdef \] \&
\} \}
```

```
\ifn \{
  \indent\xdef ' \&
  \indent\xdef ` \&
  \indent\xdef ^ \&
  \indent\xdef , \&
  \indent\xdef \~ \~
  \indent\xdef / \&
\} \}
```

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TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE)  
   fprintf (FILE, \
            "t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   asm_name ((FILE), (NAME)),
   fprintf ((FILE), \
            ",%u\n", (int)(ROUNDED))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
   asm_name ((FILE), (NAME)),
   fprintf ((FILE), \
            ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   asm_name ((FILE), (NAME)),
   fprintf ((FILE), \
            ",%u\n", (int)(ROUNDED))
#endif

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fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "."

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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@end enumerate

@end example

@end example

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```
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@c man end

GCC RUNTIME LIBRARY EXCEPTION
Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostname_r.m4

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collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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   adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.':s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE \
#define ASM_SHORT \
#define ASM_LONG \
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE)  
  fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs ("\t.comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs ("\t.lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs ("\t.lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF, PREFIX, NUMBER)
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
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@item
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@item
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@end enumerate

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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.

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end small exemple

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

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

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

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

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt-obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',

        ']);
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9][?:-0-9,.\s][s+and][s+][0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w,.-'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright')
            '([^Cc]opyrights+\([^Cc]\])\')
            '([^Cc]opyrights+\%)s'
            '([^Cc]opyrights+\&copy;)'
            '\([^Cc]opyrights+\@copyright{}\)'
            'copyright = u\''
            '@set\s+copyright[\w-.]+\')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*\[?:\s+?\] + ranges + '\.','?'
        '\[\s+\}\]]s+\s*)'

        # 3: 'by ', if used
        '\(by\s+\)\)'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).

'( + name + '(?s?: + name + ')*)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                      re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to ‘quilt add’ files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
        for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != ':
        self.errors.report (pathname,
                        'trailing characters in @set:'
                        + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn’t look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None
    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don’t recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
if filter.skip_file (dir, filename):
    sys.stdout.write ('Skipping %s\n' % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)
    
    #----------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

        return GenericFilter.skip_file (self, dir, filename)
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',
            '
            # Automatically-generated.
            '.pot',
            ']
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
            ']
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
            '
            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
            ']
        ])

        def get_line_filter(self, dir, filename):
            if filename == 'NameDecoder.h':
                return True
            return GenericFilter.get_line_filter(self, dir, filename)
class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks')
self.add_external_author ('Faraday Technology Corp')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes')
self.add_external_author ('Hewlett-Packard Company')

self.add_external_author ('Information Technology Industry Council')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
self.add_external_author ('National Research Council of Canada')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc')
self.add_external_author ('Regents of the University of California')
self.add_external_author ('Silicon Graphics Computer Systems, Inc')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Regents of the University of California')
self.add_external_author ('Unicode, Inc')
self.add_external_author ('University of Toronto')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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GNSKWXYZ

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SourceFilePermission.java

gnu/java/sound/AudioSecurityManager$Permission.java

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SourceFileCopyrightTaglet.java!
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package gnu.classpath.tools.taglets;

import java.util.Map;
import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"
;
    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
}
public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * */
* <p> <code>Permission</code>’s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
/**
 * This method tests whether or not a specified <code>Permission</code>
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();

}
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```
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under certain conditions; type `show c' for details.
```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Jan 21, 2002

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*- 

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*- 

#ifndef __java_security_Permission__
#define __java_security_Permission__

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*- 

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__
#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>
extern "Java"
{ namespace gnu
{ namespace javax
{ namespace sound
{ class AudioSecurityManager$Permission;
 }
}
}
}
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{ AudioSecurityManager$Permission(::java::lang::String *, jint);
 public:
 static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
 static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
 static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
 static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
 static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
 private:
 static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
 public:
 static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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1.187 libgcrypt20 1.6.5 :2ubuntu0.5

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Assigns past and future changes.  
Assignment for future changes terminated on 2012-12-04.  
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GNUPG Matthew Skala 1998-08-10
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Changes and bug fixes all over the place.

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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c, 
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
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ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.  
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
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Original code for cipher/rfc2268.c.

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

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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LIBGCRYPT Andrey Jivsov 2010-12-09
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(cipher/ecc.c and related files)
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(Changes to cipher/idea.c and related files)

LIBGCrypt       Vladimir Serbinenko  2012-04-26
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============
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.189 libgirepository-1.0-1:amd64 1.46.0:3ubuntu1

1.189.1 Available under license:

gobject-introspection has two licenses; one for the typelib library, and one for the tools.

The scanner (giscanner/) and typelib libraries (girepository/) are licensed under the LGPLv2+. See the file COPYING.LGPL.

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That's all there is to it!

GObject Introspection

GIR XML format

There's an XML format called GIR used by GObjectIntrospection. The purpose of it is to provide a common structure to access the complete available API that a library or other unit of code exports. It is meant to be language agnostic using namespaces to separate core, language or library specific functionality. There are currently only C based tools that work on the format, but it's meant to be usable to use in other situations, for instance to/from another set of languages.

Typelib

The typelib is a to disk version of the GIR designed to be fast, memory efficient and complete enough so that language bindings can be written on top of it without other sources of information.
It is normally compiled from a GIR when a library/program is installed and accessed from the language binding or another application who wishes to use the information.

Tools
=====

Three tools are shipped with GObject Introspection:
- g-ir-compile, a typelib compiler. It converts one or more GIR files into one or more typelib blobs. It can either emit the raw typelib blob or C code (--code).
- g-ir-generate, an GIR generator, using the repository API. It generates GIR files from binary typelib which can be in a shared object, or a raw typelib blob.
- g-ir-scanner, a tool which generates GIR XML files by parsing headers and introspecting GObject based libraries.
- g-ir-doc-tool, generates Mallard files that can be viewed with yelp or rendered to HTML with yelp-build from yelp-tools.

API library
============

There's also a C based library called libgirepository which provides an API to access to the typelib metadata. It also contains an API to invoke functions, given the function info object. The implementation is based on libffi (3.0 or higher of libffi required, can be found at http://sourceware.org/libffi).

There are a number of GIR test files in tests/, and a script to do roundtrip tests (GIR -> typelib -> GIR).

Helping out
============

The introspection framework needs a lot more work, see TODO.

Homepage
========

http://live.gnome.org/GObjectIntrospection

Reporting bugs
===============

Bugs should be reported in http://bugzilla.gnome.org/, the glib product and the introspection component.

Contact
=======

Mail: gtk-devel-list@gnome.org
IRC: #introspection@irc.gnome.org
1.190 libglib2.0-0:amd64 2.48.2 :0ubuntu4.4

1.190.1 Available under license:

This package was debianized by Akira TAGOH <tagoh@debian.org> on Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <http://ftp.gnome.org/pub/GNOME/sources/glib/>.

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1.191 libglib2.0-data 2.48.2 :0ubuntu4.4

1.191.1 Available under license:

This package was debianized by Akira TAGOH <tagoh@debian.org> on
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If 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.

6. As an exception to the Sections above, you may also compile or
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directing the user to the copy of this License. Also, you must do one
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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
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End

1.192 libgmp10:amd64 2:6.1.0+dfsg :2

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GMP Debian Package

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This gmp package was built for Debian by

Steve M. Robbins <smr@debian.org>
Philipp Matthias Hahn <pmhahn@debian.org>

from sources obtained at http://gmplib.org/.

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Some devices are designed to deny users access to install or run
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Martin Storjo *martin [at] martin.st*
DTLS-SRTP support.

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Comment: This code is not used on Debian/*, since we have a working 
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lib/extras/hex.*

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#
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##
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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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lib/vasprintf.c
Upstream Authors: David Woodhouse <dwmw2@infradead.org>
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Comment: This code is not used on Debian/*, since we have a working
vasprintf() in glibc.

lib/extras/hex.*
Author: Rusty Russell <rusty@rustcorp.com.au>
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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now
maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland
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It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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Comment: This code is not used on Debian/*, since we have a working
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lib/extras/hex.*

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Added gnutls_x509_crl_get_key_id.

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Added TLS Session Ticket (RFC 5077) support, finished client-side TLS 1.2 support.

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Redesign and implementation of the buffering layer.
Initial DTLS implementation.

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lib/accelerated/x86/elf/aes-ssse3-x86.s
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Comment: This code is not used on Debian/*, since we have a working
vasprintf() in glibc.

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@end display

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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.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

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

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

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

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

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

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

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

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

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

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

@ifexpr
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifexpr
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate
@item
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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".)

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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@end enumerate

@iftex

@end iftex

@end ifinfo

@end page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

@example
van{one line to give the library's name and an idea of what it does.}
Copyright (C) @van{year} @van{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
Also add information on how to contact you by electronic and paper mail.

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

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

Ty Coon, President of Vice

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the GNU Pascal compiler in the same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/        (for prereleases)
http://gnu-pascal.de/alpha/       (for GNU Pascal)
http://dgcc.sourceforge.net/      (for D)

The current gcc-4.4 source package is taken from the SVN gcc-4_4-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-4.4</td>
<td>libgnat-4.4</td>
<td>gnat-4.4-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-4.4</td>
<td></td>
<td>gcc-4.4-doc</td>
</tr>
<tr>
<td>C++</td>
<td>g++-4.4</td>
<td>libstdc++6</td>
<td>libstdc++6-4.4-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-4.4</td>
<td>libgfortran3</td>
<td>gfortran-4.4-doc</td>
</tr>
<tr>
<td>Java</td>
<td>gcj-4.4</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-4.4</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-4.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-4.4-dbg libstdc++6-4.4-pic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src libgcj10-dev libgcj10-dbg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4   GCC intrinsics (platform-dependent)
gcc-4.4-base                 Base files common to all compilers
gcc-4.4-soft-float          Software floating point (ARM only)
gcc-4.4-source               The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn4.4 GNAT version library
libgnatprj-dev, libgnatprj4.4 GNAT Project Manager library

C:
cpp-4.4, cpp-4.4-doc         GNU C Preprocessor
libmudflap0-dev, libmudflap0 Library for instrumenting pointers
libssp0-dev, libssp0         GCC stack smashing protection library
fixincludes                  Fix non-ANSI header files
protoize                      Create/remove ANSI prototypes from C code

Java:
gij                           The Java bytecode interpreter and VM
libgcj-common                 Common files for the Java run-time
libgcj10-awt                   The Abstract Windowing Toolkit
libgcj10-jar                   Java ARchive for the Java run-time

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdece number
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libfortran
- The libgnat-4.4 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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GCC RUNTIME LIBRARY EXCEPTION
Version 3.1, 31 March 2009

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0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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This package was debianized by Matthias Klose <doko@debian.org> on Mon, 5 Jul 2004 21:29:57 +0200

Mudflap is part of GCC.

Authors: Frank Ch. Eigler <fche@redhat.com>, Graydon Hoare <graydon@redhat.com>

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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
http://gnu-pascal.de/alpha/ (for GNU Pascal)
http://dgcc.sourceforge.net/ (for D)

The current gcc-@BV@ source package is taken from the SVN @SVN_BRANCH@.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-@BV@</td>
<td>libgnat-@BV@</td>
<td>gnat-@BV@-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-@BV@</td>
<td>gcc-@BV@</td>
<td>gcc-@BV@-doc</td>
</tr>
<tr>
<td>C++</td>
<td>g++-@BV@</td>
<td>libstdc++6</td>
<td>libstdc++6-@BV@-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-@BV@</td>
<td>libgfortran3</td>
<td>gfortran-@BV@-doc</td>
</tr>
<tr>
<td>Java</td>
<td>gcj-@BV@</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-@BV@</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-@BV@</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-@BV@-dbg</td>
<td>libstdc++6-@BV@-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbgl</td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
lLibgcc1, lLibgcc2, lLibgcc4 GCC intrinsics (platform-dependent)
gcc-@BV@-base Base files common to all compilers
gcc-@BV@-soft-float Software floating point (ARM only)
gcc-@BV@-source                  The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn@BV@   GNAT version library
libgnatprj-dev, libgnatprj@BV@   GNAT Project Manager library

C:
cpp-@BV@, cpp-@BV@-doc           GNU C Preprocessor
libmudflap0-dev, libmudflap0     Library for instrumenting pointers
libssp0-dev, libssp0             GCC stack smashing protection library
fixincludes                      Fix non-ANSI header files
protoize                          Create/remove ANSI prototypes from C code

Java:
gij                               The Java bytecode interpreter and VM
libgcj-common                     Common files for the Java run-time
libgcj10-awt                       The Abstract Windowing Toolkit
libgcj10-jar                       Java ARchive for the Java run-time

C, C++, and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
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Version 3.1, 31 March 2009

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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) /*

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs ("\t.comm ", (FILE)),
 assemble_name ((FILE), (NAME)),\n fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line... */
/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\  
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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.if t .sp .5v
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.de Vb \" Begin verbatim text
.ft CW
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.. 
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.ft R
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.ie n \{'
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.IP "16. Limitation of Liability." 4
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&ls-1WILLls0 &ls-1ANYls0 &ls-1COPYRIGHTls0 &ls-1HOLDERls0, &ls-1ORls0 &ls-1ANYls0 &ls-1OTHERls0 &ls- 1PARTYls0 &ls-1WHOls0 &ls-1MODIFIESls0 &ls-1AND/ORls0
&ls-1CONVEYSls0 &ls-1THEls0 &ls-1PROGRAMls0 &ls-1ASls0 &ls-1PERMITTEDls0 &ls-1ABOVEls0, &ls-1BEls0 &ls- 1LIABLEls0 &ls-1TOls0 &ls-1YOUls0 &ls-1FORls0 &ls-1DAMAGESls0, &ls-1INCLUDINGls0 &ls-1ANYls0 &ls-1GENERALls0 &ls-1SPECIALls0, &ls-1INCIDENTALls0 &ls-1ORls0 &ls-1CONSEQUENTIALls0 &ls-1DAMAGESls0
&ls-1ARISINGls0 &ls-1OUTls0 &ls-1OFls0 &ls-1THEls0 &ls-1USEls0 &ls-1ORls0 &ls-1INABILITYls0 &ls-1TOls0 &ls- 1USEls0 &ls-1THEls0 &ls-1PROGRAMls0 &ls-1INCLUDINGls0 &ls-1 BUTls0
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.IP "17. Interpretation of Sections 15 and 16." 4
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Version 3.1, 31 March 2009

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java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%!java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/
String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString();gnu/java/lang/CPStringBuilder
:
?>@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:J?K3(Ljava/lang/String:)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:*95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
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XM.,*%$nop
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"+7>GNSKWXYZ
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$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurit
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

/* -
 &...26.: >!,B"#QY$%*+%+WFGH-.
/0A
*2Y+S4K
*/
private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
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 * actions associated with them. That is, you either have the permission
 * or you don't.
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    public boolean implies(Permission that) {
        // Implementation
    }
}

* Compatible with JDK 1.1+.

This is the name assigned to this permission object.

@serial the name of the permission

Create an instance with the specified name.

@param name the permission name

This method implements the <code>Guard</code> interface for this class.

It calls the <code>checkPermission</code> method in
<code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds
or throws an exception if it fails.

@param obj the <code>Object</code> being guarded - ignored by this class

@throws SecurityException if the security check fails

@see GuardedObject

@see SecurityManager#checkPermission(Permission)

This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a String representation of this Permission object. This is in the format:
* '(\$permissionClass.getName() + ' ' + getName() + ' ' + getActions + ')'.
*
* @return this object as a String
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
    /**
     * This method tests whether or not a specified Permission is the same as this permission.
     * (passed as an Object) is the same as this permission.
     * @param perm The permission to check for equality
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#endif // __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class * class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#endif // __java_security_Permission__
#define __java_security_Permission__
#define __java_security_Permission__

#pragma interface
#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public java::lang::Object
{
    public:
        Permission(::java::lang::String *);
        virtual void checkGuard(::java::lang::Object *);
        virtual jboolean implies(::java::security::Permission *) = 0;
        virtual jboolean equals(::java::lang::Object *) = 0;
        virtual jint hashCode() = 0;
        virtual ::java::lang::String * getName();
        virtual ::java::lang::String * getActions() = 0;
        virtual ::java::security::PermissionCollection * newPermissionCollection();
        virtual ::java::lang::String * toString();
    private:
        static const jlong serialVersionUID = -5636570222231596674LL;
        ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
    public:
        static ::java::lang::Class class$;
};
#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated .* c++ .*

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>
extern "Java"
{
    namespace gnu
    {
        // ...
    }
{ namespace javax
{ namespace sound
{ 
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
	public:
	    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
	    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
	    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
	    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
	    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
	    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
	public:
	    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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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
collections have also been made by many others.

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has
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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.

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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.

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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@item
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@item
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@item
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@end enumerate

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@c man end

#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
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#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ' ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texti',
            'gpl_v3.texti',
            'fdl-1.3.xml',
            'gpl-3.0.xml'])
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltSugar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
# Skip .in files produced by automake.
if os.path.exists (base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:-0-9,\s]\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*\s*###

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# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((Cc)opyright' 
    '[(Cc)opyright\s+\{(Cc)\}]' 
    '[(Cc)opyright\s+%s' 
    '[(Cc)opyright\s+&copy;' 
    '[(Cc)opyright\s+@copyright{]' 
    'copyright = u"' 
    '@set\s+copyright\[w-\]+)'  
    # 2: the years. Include the whitespace in the year, so that 
    # we can remove any excess.
    '(\s*(?:' + ranges + ',?  
    '@value\{[^{}]*\})\s*)' 
    # 3: 'by ', if used
    '(by\s+)'?
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(' + name + '(?:\s?' + name + ')*)?'  
    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]' ,  
     re.IGNORECASE)  
    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
    self.holders = { '@copying': '@copying' }  
    self.holder_prefixes = set()  
    self.use_quilt = False
    # If set, force all notices to include this year.
    self.max_year = None
    # Goes after the year(s). Could be ',', '.
    self.separator = ','

def add_package_author (self, holder, canon_form = None):  
    if not canon_form:  
        canon_form = holder  
    self.holders[holder] = canon_form  
    index = holder.find (','
    while index >= 0:
        # True to 'quilt add' files before changing them.
        self.use_quilt = False

    # If set, force all notices to include this year.
    self.max_year = None

    # Goes after the year(s). Could be ',', '.
    self.separator = ','

    def add_package_author (self, holder, canon_form = None):
        if not canon_form:
            canon_form = holder
        self.holders[holder] = canon_form
        index = holder.find (',')
        while index >= 0:
self.holder_prefixes.add (holder[:index])
index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set '):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '):
            self.errors.report(pathname,
                'trailing characters in @set:
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)
else intro.endswith('c'):
    intro = intro[:-3] + '(C)
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s
                                           % line.strip())
                lines.append(line)
                line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))
def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                        + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#---------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set (['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set (['
            # Old news won't be updated.
        ']的人物命名

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class TestsuiteFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])
class LibJavaFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # 'The testsuite data files shouldn't be changed.
            'data',
        ])

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# Contains imported images
'images',
]

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('Fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecmnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libobjc',
            'libquadmath']

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'libatomic',
'libbacktrace',
'libc++',
'libcap',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -. *

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
    static ::java::lang::Class* class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }
}
public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>"());
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

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ConstantValuecopyrightHEADER
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
/**
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the Guard interface for this class.
 * It calls the checkPermission method in SecurityManager with this Permission as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 * @param obj the Object being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this Permission implies that the specified Permission is also granted.
 * @param perm the Permission to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);
/**
 * Check to see if this object equals obj. Use <code>equals()</code>, rather
 * than <code>equals()</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode()</code>; it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies()</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is &lt;em&gt;not&lt;/em&gt; the same as the class
 * &lt;code&gt;java.security.Permission&lt;/code&gt;.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified &lt;code&gt;Permission&lt;/code&gt;
 * (passed as an &lt;code&gt;Object&lt;/code&gt;) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return &lt;code&gt;true&lt;/code&gt; if the specified permission is the same as this one, &lt;code&gt;false&lt;/code&gt; otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this &lt;code&gt;Permission&lt;/code&gt; as a &lt;code&gt;String&lt;/code&gt;.
 *
 * @return A &lt;code&gt;String&lt;/code&gt; representing this permission.
*/
String toString();
}
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David Megginson, sax@megginson.com
1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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```java
1 java/security/Permission
java/lang/Object
java/security/Guard
java/io/Serializable
serialVersionUID
ConstantValue
(java/lang/String);<init>(Ljava/lang/String;)V
Code
()
V
LineNumberTable
LocalVariableTable
this.java/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System
"#getSecurityManager()Ljava/lang/SecurityManager;

&
java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)V
objLjava/lang/Object;smLjava/lang/SecurityManager;implies(Ljava/security/Permission;)Z
equals(Ljava/lang/Object;)Z
hashCode()I
getName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;
toString();gnu/java/lang/CPStringBuilder;
:
:>???append"(C)Lgnu/java/lang/CPStringBuilder;
BCD
getClass()Ljava/lang/Class;

FHG
java/lang/Class45
:J
?
K
3
(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTS
java/lang/String01
:\nV
95
stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]^

XM..*$nop
q *+
-.012345/**6578,95S.Y<\L+(=L+*AEIL+.=L+*LIL.*MOQ+.=L+*MIL+.)=L+U*+7>GNSKWXYZ
1 java/security/acl/Permission
java/lang/Object
equals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/java/sound/AudioSecurityManager$Permission
java/lang/Enum
PLAY1
Lgnu/java/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/java/sound/AudioSecurityManager$Permission;<clinit>
>()V
Code
<init>(Ljava/lang/String;I)V
```
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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Ty Coon, President of Vice

That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@miiname.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detelfs(detelfs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(age@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.

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

@c man end

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
"
" Standard preamble:
"
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\$1
.PP
.. 
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp

.. 
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
.. 
.de Ve " End verbatim text
.ft R
.fi
.. 
" Set up some character translations and predefined strings. \{-- will
\} will give an unbreakable dash, \{PI will give pi, \{L" will give a left
\} will give a right double quote. \{C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and
\} therefore won't be available. \{C' and \{C expand to ` in nroff,
\} nothing in troff, for use with C\>.
.tr \{*-W-.
.ds C+ CW-.1v\h'-1p\'s-2v\h'-1p'+s0vw'.1v\h'-1p'
.ie n \{
  . ds -- \{*-W-.
  . ds PI pi
  . if \{n.(H=4u)&(1m=24u) . ds -- \{W\h'-12u\}\{W\h'-12u\} \{diablo 10 pitch
  . if \{n.(H=4u)&(1m=20u) . ds -- \{W\h'-12u\}\{W\h'-8u\} \{diablo 12 pitch
  . ds L" "
  . ds R" "

Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for
titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2). Fear. Run. Save yourself. No user-serviceable parts.

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using  
underscores, we are using prefix `.s to identify labels that should  
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"  
#define ASM_SHORT "\t.word\t"  
#define ASM_LONG "\t.long\t"  
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS  
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line  
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUTSKIP(FILE,SIZE)  
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line  
to define a global common symbol. */

#define ASM_OUTPUTCOMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),  
 assemble_name ((FILE), (NAME)),  
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  (fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  (fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d
", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), "\*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1.31 March 2009

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1.197 libgssapi-krb5-2 1.13.2+dfsg:
5ubuntu2.1

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

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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_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
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kprolog.c

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1.198 libgssapi3-heimdal:amd64
1.7~git20150920+dfsg :4ubuntu1.16.04.1
1.198.1 Available under license:

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NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Release Notes:

popper-1.831beta is no longer beta 30 July 91
Removed popper-1.7.tar.Z

popper-1.831beta.tar.Z 03 April 91
Changed mkstemp to mktemp for Ultrix. Sigh.

popper-1.83beta.tar.Z 02 April 91
This version makes certain that while running as root we do nothing at all destructive.

popper-1.82beta.tar.Z 27 March 91
This version fixes problems on Encore MultiMax and some Sun releases which wouldn't allow a user to ftruncate() a file from an open file descriptor unless the user owns the file. Now the user owns the /usr/spool/mail/.userid.pop file. Thanks to Ben Levy of FTP Software and Henry Holtzman of Apple.

popper-1.81beta.tar.Z 20 March 91
This version of popper is supposed to fix three problems reported with various versions of popper (all called 1.7 or 1.7something).

1) Dropped network connections meant lost mail files. Some 1.7 versions also risked corrupting mail files.

2) Some versions of 1.7 created temporary drop files with world read and write permissions.

3) Some versions of 1.7 were not careful about opening the temporary drop file.

popper-1.7.tar.Z 09 September 90 (updated 20 March 91)
This version will exhibit the first problem listed above if it is compiled with -DDEBUG and run without the "-d" (debug) flag.
If it is compiled without -DDEBUG it will exhibit only the second and third bug listed above.

Cliff Frost poptest@nettlesome.berkeley.edu
UC Berkeley

Heimdal is a Kerberos 5 implementation.
For information how to install see <http://www.h5l.org/compile.html>.

There are briefer man pages for most of the commands.

Bug reports and bugs are appreciated, see more under Bug reports in the manual on how we prefer them: <heimdal-bugs@h5l.org>.

For more information see the web-page at <http://www.h5l.org/> or the mailing lists:

heimdal-announce@sics.se low-volume announcement
heimdal-discuss@sics.se high-volume discussion

send a mail to heimdal-announce-request@sics.se and
heimdal-discuss-request@sics.se respectively to subscribe.
This kerberized popper was based on popper-1.831beta
which was later announced as "official" and not beta.

This program is able to talk both the pop3 and the kpop3 protocol.

Please note that the server principal is pop.hostname and not
rcmd.hostname. I.e an additional entry is needed in your mailhub's
/etc/srvtab. Use ksrvutil to add the extra prinicpal.

The server is usually started from inetd and there is already an entry
for that in inetd.conf.changes.
This is a set of patches and files to get a DFS ticket from a k5 ticket.
This code comes from Doug Engert, Argonne Nat. Lab (See dce/README.original
for more info)

The files in dce are:
testpag: for testing if this is at all possible.
k5dfspag: included in libkrb5
k5dcecon: Creates (or searches for) the actual DFSPAG ticketfile.
dpagaix: An AIX syscall stub.
README.original: Original README file from Doug Engert

Certain applications (rshd/telnetd) have been patched to call the
functions in k5dfspag when the situation is right. They are ifdef
with DCE. The patches are also originally from Doug but they
where against MIT krb5 code and have been merged into heimdal by me.
I will try to fix ftpd soon...

There is also an ifdef for DCE && AIX that can be used to make AIX
use DCE for getting group/passwd entries. This is needed if one is running
with a bare bones passwd/group file and AUTHSTATE set to DCE (This will be
more or less clear to people doing this...) I have forced this on for now.

k5dvspag.c is in lib/krb5
k5dvspag.c is dependent on DCE only.
It is also POSIX systems only. There are defines for the location of
k5dcecon and dpagaix that needs a correct configure setting.

k5dcecon needs no special things for the compile except whatever is needed
on the target system to compile dce programs.
(On aix the dce compile flags are: -D_THREAD_SAFE -D_AIX32_THREADS=1 -D_AIX41 -D_AES_SOURCE
or one can use xlc_r4 if it is version 3.6.4 or later)

k5dcecon wants the following libs (on aix 4.3):
-ldce (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dfspag.c).
dpagaix needs dfspag.exp and is linked with
ld -edpagaix -o dpagaix dpagaix.o dfspag.exp

Hope to get this into heimdal soon :-) although I know that you will have to
change some things to get it cleanly into configure. Since I don't know the
structure of the code (heimdal), nor enough of configure, good enough I
just won't try it myself.

One more thing, to get this to work one has to put fcache_version = x in
krb5.conf where x = whatever the DCE implementation understands, (usually
1 or 2).
Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)
HPC2N
Ume" University
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this
all cleanly (I hope) into heimdal.
Note on ksu
--------
This program is not installed setuid root be default. If you want to
install it setuid root, then you can override the package permissions
with:

dpkg-statoverride --update --add root root 4755 /usr/bin/ksu

Note on ipropd and/or hpropd
The following entries may be required in you /etc/services file (see bug #139845):

```
krb_prop      754/tcp                         # Kerberos slave propagation
iprop         2121/tcp                        # incremental propagation
```

Note on kerberos.8 man page
-----------------------------------------------
This man page is not currently included due to conflict with kerberos4kth-kdc package. For more information on Kerberos, see:

Installing heimdal for Debian
-----------------------------------------------
(Note: if you do not have a krb4 KDC, you may need to include "krb4_get_tickets = no" in the [libdefaults] section of kdc.conf; otherwise kinit will complain with an error).

Things you will have to do manually (see info documentation for details):

On KDC:
1. Add administrator keys using kadmin.

   For example:
   # kadmin -l
   kadmin> add bam/admin
   Max ticket life [unlimited]:
   Max renewable life [unlimited]:
   Principal expiration time [never]:
   Password expiration time [never]:
   Attributes []:
   bam/admin@CHOCBIT.ORG.AU’s Password:
   Verifying password - bam/admin@CHOCBIT.ORG.AU’s Password:
   
   2. Add kadmin/admin key to KDC:

   For example:
   # kadmin -l
   kadmin> add -r kadmin/admin@CHOCBIT.ORG.AU
   Max ticket life [unlimited]:
   Max renewable life [unlimited]:
   Principal expiration time [never]:
   Password expiration time [never]:
   Attributes []:
   
   (note: this key doesn't need to be extracted).
3. Enable remote administration by creating `/etc/heimdal-kdc/kadmind.acl

For example:
egcho 'bam/admin@CHOCBIT.ORG.AU all' > /etc/heimdal-kdc/kadmind.acl

4. Test.

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> list *
[should list all keys]

5. Add user keys

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add bam

On other computers:
1. If you installed heimdal-clients-x or heimdal-servers-x, then you will need to add the following entry to `/etc/services
kx 2111/tcp  # X over kerberos
(check to make sure this doesn't already exist).
2. edit `/etc/krb5.conf
3. setup secret keys each computer, using kadmin and/or ktutil.

For example, on remote computer dewey.chocbit.org.au:
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add -r host/dewey.chocbit.org.au
[...]
kadmin> ext host/dewey.chocbit.org.au
kadmin> add -r ftp/dewey.chocbit.org.au
[...]
kadmin> ext ftp/dewey.chocbit.org.au

The ext command extracts keys to `/etc/krb5.keytab, where they can be inspected with the "ktutil list" command at the shell prompt.

Tell me if any files conflict with any other package - do not try to force the package to install, otherwise things may break...
In general, this package conflicts with kerberos4kth and probably MIT Kerberos (not packaged as of potato). Local installations under `/usr/local should be OK.
Changes from upstream source:
1. `popper` checks for `$HOME/Maildir`, `$HOME/Mailbox` and `/var/spool/mail/<user>` in that order.
2. `/var/lib/heimdal-kdc` used instead of `/var/heimdal`
3. `/usr/bin/login` moved to `/usr/lib/heimdal-servers`
4. `/usr/lib/heimdal-servers` used instead of `/usr/libexec`
5. `telnet` and `ftp` have been renamed to `ktelnet` and `kftp`, and use the update-alternatives mechanism. In the future, this should allow `heimdal-clients` to exist at the same time as `telnet-ssl`.
6. `kdc` config files `kdc.conf` and `kadmind.acl` stored in `/etc/heimdal-kdc` instead of `/usr/lib/heimdal-servers`.

Automatically creating users
-----------------------------

Option #1: Use perl glue found at
<ftp://ftp.su.se/pub/users/leifj/Heimdal-Kadm5-0.04.tar.gz>

Option #2: cat kadmin-commands | kadmin

For more details, see <http://bugs.debian.org/276402>.

-- Brian May <bam@debian.org>, Wed, 8 Dec 1999 11:54:13 +1100

-- in order of preference

- `client`: support KRB5_PADATA_ENCRYPTED_CHALLENGE in `lib/krb5/init_creds_pw.c`
- `client`: don't support ENC-TS in FAST

- `client`: plugin support for fast plugins

- `kdc`: plugin support for fast plugins
partly done with "struct kdc_patypes"

- `kcm`: support FAST armor ticket
  -- using PK-INIT anonymous
  -- using host key

- `client`: tgs-req fast support
- `kdc`: tgs-req fast support

This is a distribution of both client and server telnet. These programs have been compiled on:
telnet telnetd
4.4 BSD-Lite x x
4.3 BSD Reno X X
Open Source Used In Ultra Services Platform Version 6.10

9493

UNICOS 9.1 X X
UNICOS 9.0 X X
UNICOS 8.0 X X
BSDI 2.0 X X
Solaris 2.4 x x (no linemode in server)
SunOs 4.1.4 X X (no linemode in server)
Ultrix 4.3 X X (no linemode in server)
Ultrix 4.1 X X (no linemode in server)

In addition, previous versions have been compiled on the following machines, but were not available for testing this version.
telnet telnetd
Next1.0 X X
UNICOS 8.3 X X
UNICOS 7.0 X X
UNICOS 7.0 X X
SunOs 4.0.3c X X (no linemode in server)
4.3 BSD X X (no linemode in server)
DYNIX V3.0.12 X X (no linemode in server)
Ultrix 3.1 X X (no linemode in server)
Ultrix 4.0 X X (no linemode in server)
SunOs 3.5 X X (no linemode in server)
SunOs 4.1.3 X X (no linemode in server)
Solaris 2.2 x x (no linemode in server)
Solaris 2.3 x x (no linemode in server)
BSDI 1.0 X X
BSDI 1.1 X X
DYNIX V3.0.17.9 X X (no linemode in server)
HP-UX 8.0 x x (no linemode in server)

This code should work, but there are no guarantees.

May 30, 1995

This release represents what is on the 4.4BSD-Lite2 release, which should be the final BSD release. I will continue to support of telnet. The code (without encryption) is available via anonymous ftp from ftp.cray.com, in src/telnet/telnet.YY.MM.DD.NE.tar.Z, where YY.MM.DD is replaced with the year, month and day of the release. If you can't find it at one of these places, at some point in the near future information about the latest releases should be available from ftp.borman.com.

In addition, the version with the encryption code is available via ftp from net-dist.mit.edu, in the directory /pub/telnet. There is a README file there that gives further information on how to get the distribution.
Questions, comments, bug reports and bug fixes can be sent to one of these addresses:

dab@borman.com
dab@cray.com
dab@bsdi.com

This release is mainly bug fixes and code cleanup.

Replace all calls to bcopy()/bzero() with calls to memmove()/memset() and all calls to index()/rindex() with calls to strchr()/strchr().

Add some missing diagnostics for option tracing to telnetd.

Add support for BSDI 2.0 and Solaris 2.4.

Add support for UNICOS 8.0

Get rid of expanded tabs and trailing white spaces.

From Paul Vixie:
Fix for telnet going into an endless spin when the session dies abnormally.

From Jef Poskanzer:
Changes to allow telnet to compile under SunOS 3.5.

From Philip Guenther:
makeutx() doesn't expand utmpx, use pututxline() instead.

From Chris Torek:
Add a sleep(1) before execing login to avoid race condition that can eat up the login prompt.
Use terminal speed directly if it is not an encoded value.

From Steve Parker:
Fix to realloc() call. Fix for execing login on solaris with no user name.

January 19, 1994

This is a list of some of the changes since the last tar release of telnet/telnetd. There are probably other changes that aren't
listed here, but this should hit a lot of the main ones.

General:
Changed #define for AUTHENTICATE to AUTHENTICATION
Changed #define for ENCRYPT to ENCRYPTION
Changed #define for DES_ENCRYPT to DES_ENCRYPTION

Added support for SPX authentication: -DSPX

Added support for Kerberos Version 5 authentication: -DKRB5

Added support for ANSI C function prototypes

Added support for the NEW-ENVIRON option (RFC-1572) including support for USERVAR.

Made support for the old Environment Option (RFC-1408) conditional on -DOLD_ENVIRON

Added #define ENV_HACK - support for RFC 1571

The encryption code is removed from the public distributions. Domestic 4.4 BSD distributions contain the encryption code.

ENV_HACK: Code to deal with systems that only implement the old ENVIRON option, and have reversed definitions of ENV_VAR and ENV_VAL. Also fixes ENV processing in client to handle things besides just the default set...

NO_BSD_SETJMP: UNICOS configuration for UNICOS 6.1/6.0/5.1/5.0 systems.

STREAMSPTY: Use /dev/ptmx to get a clean pty. This is for SVr4 derivatives (Like Solaris)

UTMPX: For systems that have /etc/utmpx. This is for SVr4 derivatives (Like Solaris)

Definitions for BSDI 1.0

Definitions for 4.3 Reno and 4.4 BSD.

Definitions for UNICOS 8.0 and UNICOS 7.C

Definitions for Solaris 2.0

Definitions for HP-UX 8.0
Latest Copyright notices from Berkeley.

FLOW-CONTROL: support for RFC-XXXx

Client Specific:

Fix the "send" command to not send garbage...

Fix status message for "skiprc"

Make sure to send NAWS after telnet has been suspended or an external command has been run, if the window size has changed.

sysV88 support.

Server Specific:

Support flowcontrol option in non-linemode servers.

-k Server supports Kludge Linemode, but will default to either single character mode or real Linemode support. The user will have to explicitly ask to switch into kludge linemode. ("stty extproc", or escape back to telnet and say "mode line".)

-u Specify the length of the hostname field in the utmp file. Hostname longer than this length will be put into the utmp file in dotted decimal notation, rather than putting in a truncated hostname.

-U Registered hosts only. If a reverse hostname lookup fails, the connection will be refused.

-ff/-F

Allows forwarding of credentials for KRB5.

February 22, 1991:

Features:

This version of telnet/telnetd has support for both the AUTHENTICATION and ENCRYPTION options. The AUTHENTICATION option is fairly well defined, and an option number has been assigned to it. The ENCRYPTION option is still in a state of flux; an option number has been assigned to, but it is still

subject to change. The code is provided in this release for experimental and testing purposes.

The telnet "send" command can now be used to send do/dont/will/wont commands, with any telnet option name. The rules for when do/dont/will/wont are sent are still followed, so just because the user requests that one of these be sent doesn't mean that it will be sent...

The telnet "getstatus" command no longer requires that option printing be enabled to see the response to the "DO STATUS" command.

A -n flag has been added to telnetd to disable keepalives.

A new telnet command, "auth" has been added (if AUTHENTICATE is defined). It has four sub-commands, "status", "disable", "enable" and "help".

A new telnet command, "encrypt" has been added (if ENCRYPT is defined). It has many sub-commands: "enable", "type", "start", "stop", "input", "-input", "output", "-output", "status", and "help".

The LOGOUT option is now supported by both telnet and telnetd, a new command, "logout", was added to support this.

Several new toggle options were added:
"autoencrypt", "autodecrypt", "autologin", "authdebug", "encdebug", "skiprc", "verbose_encrypt"

An "rlogin" interface has been added. If the program is named "rlogin", or the "-r" flag is given, then an rlogin type of interface will be used.
~. Terminates the session
~<susp> Suspend the session
~^] Escape to telnet command mode
~~ Pass through the ~.

BUG: If you type the rlogin escape character in the middle of a line while in rlogin mode, you cannot erase it or any characters before it. Hopefully this can be fixed in a future release...

General changes:
A "libtelnet.a" has now been created. This library contains code that is common to both telnet and telnetd. This is also where library routines that are needed, but are not in the standard C library, are placed.

The makefiles have been re-done. All of the site specific configuration information has now been put into a single "Config.generic" file, in the top level directory. Changing this one file will take care of all three subdirectories. Also, to add a new/local definition, a "Config.local" file may be created at the top level; if that file exists, the subdirectories will use that file instead of "Config.generic".

Many 1-2 line functions in commands.c have been removed, and just inserted in-line, or replaced with a macro.

Bug Fixes:

The non-termio code in both telnet and telnetd was setting/clearing CTLECH in the sg_flags word. This was incorrect, and has been changed to set/clear the LCTLECH bit in the local mode word.

The SRCRT #define has been removed. If IP_OPTIONS and IPPROTO_IP are defined on the system, then the source route code is automatically enabled.

The NO_GETTYTAB #define has been removed; there is a compatibility routine that can be built into libtelnet to achieve the same results.

The server, telnetd, has been switched to use getopt() for parsing the argument list.

The code for getting the input/output speeds via cfgetispeed()/cfgetospeed() was still not quite right in telnet. Posix says if the ispeed is 0, then it is really equal to the ospeed.

The suboption processing code in telnet now has explicit checks to make sure that we received the entire suboption (telnetd was already doing this).

The telnet code for processing the terminal type
could cause a core dump if an existing connection was closed, and a new connection opened without exiting telnet.

Telnetd was doing a TCSADRAIN when setting the new terminal settings; This is not good, because it means that the tcsetattr() will hang waiting for output to drain, and telnetd is the only one that will drain the output... The fix is to use TCSANOW which does not wait.

Telnetd was improperly setting/clearing the ISTRIP flag in the c_iflag field, it should be using the c_iflag field.

When the child process of telnetd was opening the slave side of the pty, it was re-setting the EXTPROC bit too early, and some of the other initialization code was wiping it out. This would cause telnetd to go out of linemode and into single character mode.

One instance of leaving linemode in telnetd forgot to send a WILL ECHO to the client, the net result would be that the user would see double character echo.

If the MODE was being changed several times very quickly, telnetd could get out of sync with the state changes and the returning acks; and wind up being left in the wrong state.

September 14, 1990:

Switch the client to use getopt() for parsing the argument list. The 4.3Reno getopt.c is included for systems that don't have getopt().

Use the posix _POSIX_VDISABLE value for what value to use when disabling special characters. If this is undefined, it defaults to 0x3ff.

For non-termio systems, TIOCSETP was being used to change the state of the terminal. This causes the input queue to be flushed, which we don't want. This is now changed to TIOCSETN.

Take out the "#ifdef notdef" around the code in the server that generates a "sync" when the pty output
is flushed. The potential problem is that some older
telnet clients may go into an infinate loop when they
receive a "sync", if so, the server can be compiled
with "NO_URGENT" defined.

Fix the client where it was setting/clearing the OPOST
bit in the c_iflag field, not the c_oflag field.

Fix the client where it was setting/clearing the ISTRIP
bit in the c_iflag field, not the c_iflag field. (On
4.3Reno, this is the ECHOPRT bit in the c_iflag field.)
The client also had its interpretation of WILL BINARY
and DO BINARY reversed.

Fix a bug in client that would cause a core dump when
attempting to remove the last environment variable.

In the client, there were a few places were switch()
was being passed a character, and if it was a negative
value, it could get sign extended, and not match
the 8 bit case statements. The fix is to and the
switch value with 0xff.

Add a couple more printoption() calls in the client, I
don't think there are any more places were a telnet
command can be received and not printed out when
"options" is on.

A new flag has been added to the client, "-a". Currently,
this just causes the USER name to be sent across, in
the future this may be used to signify that automatic
authentication is requested.

The USER variable is now only sent by the client if
the "-a" or "-l user" options are explicity used, or
if the user explicitly asks for the "USER" environment
variable to be exported. In the server, if it receives
the "USER" environment variable, it won't print out the
banner message, so that only "Password:" will be printed.
This makes the symantics more like rlogin, and should be
more familiar to the user. (People are not used to
getting a banner message, and then getting just a
"Password:" prompt.)

Re-vamp the code for starting up the child login
process. The code was getting ugly, and it was
hard to tell what was really going on. What we
do now is after the fork(), in the child:
1) make sure we have no controlling tty
2) open and initialize the tty
3) do a setsid()/setpgrp()
4) makes the tty our controlling tty.
On some systems, #2 makes the tty our controlling
tty, and #4 is a no-op. The parent process does
a gets rid of any controlling tty after the child
is forked.

Use the strdup() library routine in telnet, instead
of the local savestr() routine. If you don't have
strdup(), you need to define NO_STRDUP.

Add support for ^T (SIGINFO/VSTATUS), found in the
4.3Reno distribution. This maps to the AYT character.
You need a 4-line bugfix in the kernel to get this
to work properly:

> *** tty_pty.c.ORG Tue Sep 11 09:41:53 1990
> --- tty_pty.c Tue Sep 11 17:48:03 1990
> ***********************
> *** 609,613 ****
> if ((tp->t_lflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data);
> return(0);
> }
> --- 609,616 ----
> if ((tp->t_lflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data, 1);
> ! if (*((unsigned int *)data == SIGINFO) &&
> ! (((unsigned int *)data == SIGINFO) &
> ! ((tp->t_lflag&NOKERNINFO) == 0))
> ! ttyinfo(tp);
> return(0);
> }

The client is now smarter when setting the telnet escape
character; it only sets it to one of VEOL and VEOL2 if
one of them is undefined, and the other one is not already
defined to the telnet escape character.

Handle TERMIOS systems that have separate input and output
line speed settings imbedded in the flags.

Many other minor bug fixes.

June 20, 1990:
Re-organize makefiles and source tree. The telnet/Source directory is now gone, and all the source that was in telnet/Source is now just in the telnet directory.

Separate makefile for each system are now gone. There are two makefiles, Makefile and Makefile.generic. The "Makefile" has the definitions for the various system, and "Makefile.generic" does all the work. There is a variable called "WHAT" that is used to specify what to make. For example, in the telnet directory, you might say:

```
make 4.4bsd WHAT=clean
to clean out the directory.
```

Add support for the ENVIRON and XDISPLOC options. In order for the server to work, login has to have the "-p" option to preserve environment variables.

Add the SOFT_TAB and LIT_ECHO modes in the LINEMODE support.

Add the "-l user" option to command line and open command (This is passed through the ENVIRON option).

Add the "-e" command line option, for setting the escape character.

Add the "-D", diagnostic, option to the server. This allows the server to print out debug information, which is very useful when trying to debug a telnet that doesn't have any debugging ability.

Turn off the literal next character when not in LINEMODE.

Don't recognize ^Y locally, just pass it through.

Make minor modifications for Sun4.0 and Sun4.1

Add support for both FORW1 and FORW2 characters. The telnet escape character is set to whichever of the two is not being used. If both are in use, the escape character is not set, so when in linemode the user will have to follow the escape character with a <CR> or <EOF) to get it passed through.

Commands can now be put in single and double quotes, and a backslash is now an escape character. This is needed for allowing arbitrary strings to be assigned to environment variables.
Switch telnetd to use macros like telnet for keeping track of the state of all the options.

Fix telnetd's processing of options so that we always do the right processing of the LINEMODE option, regardless of who initiates the request to turn it on. Also, make sure that if the other side went "WILL ECHO" in response to our "DO ECHO", that we send a "DONT ECHO" to get the option turned back off!

Fix the TERMIOS setting of the terminal speed to handle both BSD's separate fields, and the SYSV method of CBAUD bits.

Change how we deal with the other side refusing to enable an option. The sequence used to be: send DO option; receive WONT option; send DONT option. Now, the sequence is: send DO option; receive WONT option. Both should be valid according to the spec, but there has been at least one client implementation of telnet identified that can get really confused by this. (The exact sequence, from a trace on the server side, is (numbers are number of responses that we expect to get after that line...):

send WILL ECHO1 (initial request)
send WONT ECHO2 (server is changing state)
recv DO ECHO1 (first reply, ok. expect DONT ECHO next)
send WILL ECHO2 (server changes state again)
recv DONT ECHO1 (second reply, ok. expect DO ECHO next)
recv DONT ECHO0 (third reply, wrong answer. got DONT!!!)
***send WONT ECHO (send WONT to acknowledge the DONT)
send WILL ECHO1 (ask again to enable option)
recv DO ECHO0
recv DONT ECHO0
send WONT ECHO1
recv DONT ECHO0
recv DO ECHO1
send WILL ECHO0
(and the last 5 lines loop forever)

The line with the "***" is last of the WILL/DONT/WONT sequence. The change to the server to not generate that makes this same example become:

send will ECHO1
send wont ECHO2
recv do ECHO1
send will ECHO
recv dont ECHO
recv dont ECHO
recv do ECHO
send will ECHO

There is other option negotiation going on, and not sending
the third part changes some of the timings, but this specific
example no longer gets stuck in a loop. The "telnet.state"
file has been modified to reflect this change to the algorithm.

A bunch of miscellaneous bug fixes and changes to make
lint happier.

This version of telnet also has some KERBEROS stuff in
it. This has not been tested, it uses an un-authorized
telnet option number, and uses an out-of-date version
of the (still being defined) AUTHENTICATION option.
There is no support for this code, do not enable it.

March 1, 1990:
CHANGES/BUGFIXES SINCE LAST RELEASE:
Some support for IP TOS has been added. Requires that the
kernel support the IP_TOS socket option (currently this
is only in UNICOS 6.0).

Both telnet and telnetd now use the cc_t typedef. typedefs are
included for systems that don't have it (in termios.h).

SLC_SUSP was not supported properly before. It is now.

IAC EOF was not translated properly in telnetd for SYSV_TERMIO
when not in linemode. It now saves a copy of the VEOF character,
so that when ICANON is turned off and we can't trust it anymore
(because it is now the VMIN character) we use the saved value.

There were two missing "break" commands in the linemode
processing code in telnetd.

Telnetd wasn't setting the kernel window size information
properly. It was using the rows for both rows and columns...

Questions/comments go to
David Borman
Cray Research, Inc.
655F Lone Oak Drive
Eagan, MN 55123
dab@cray.com.

README: You are reading it.

**Config.generic:**
This file contains all the OS specific definitions. It
has pre-definitions for many common system types, and is
in standard makefile format. See the comments at the top
of the file for more information.

**Config.local:**
This is not part of the distribution, but if this file exists,
it is used instead of "Config.generic". This allows site
specific configuration without having to modify the distributed
"Config.generic" file.

**kern.diff:**
This file contains the diffs for the changes needed for the
kernel to support LINEMODE is the server. These changes are
for a 4.3BSD system. You may need to make some changes for
your particular system.

There is a new bit in the terminal state word, TS_EXTPROC.
When this bit is set, several aspects of the terminal driver
are disabled. Input line editing, character echo, and
mapping of signals are all disabled. This allows the telnetd
to turn off these functions when in linemode, but still keep
track of what state the user wants the terminal to be in.

New ioctl(s):

TIOCEXT
Turn on/off the TS_EXTPROC bit
TIOCGSTATE
Get t_state of tty to look at TS_EXTPROC bit
TIOCSIG
Generate a signal to process in the
current process group of the pty.

There is a new mode for packet driver, the TIOCPKT_IOCTL bit.
When packet mode is turned on in the pty, and the TS_EXTPROC
bit is set, then whenever the state of the pty is changed, the
next read on the master side of the pty will have the TIOCPKT_IOCTL
bit set, and the data will contain the following:

```
struct xx {
    struct sgttyb a;
    struct tchars b;
    struct ltchars c;
    int t_state;
    int t_flags;
}
```
This allows the process on the server side of the pty to know when the state of the terminal has changed, and what the new state is.

However, if you define USE_TERMIO or SYSV_TERMIO, the code will expect that the structure returned in the TIOCPKT_IOCTL is the termio/termios structure.

stty.diff:
This file contains the changes needed for the stty(1) program to report on the current status of the TS_EXTPROC bit. It also allows the user to turn on/off the TS_EXTPROC bit. This is useful because it allows the user to say "stty -extproc", and the LINEMODE option will be automatically disabled, and saying "stty extproc" will re-enable the LINEMODE option.

telnet.state:
Both the client and server have code in them to deal with option negotiation loops. The algorithm that is used is described in this file.

telnet:
This directory contains the client code. No kernel changes are needed to use this code.

telnetd:
This directory contains the server code. If LINEMODE or KLUDGE LINEMODE are defined, then the kernel modifications listed above are needed.

libtelnet:
This directory contains code that is common to both the client and the server.

arpa:
This directory has a new <arpa/telnet.h>

libtelnet/Makefile.4.4:
telnet/Makefile.4.4:
telnetd/Makefile.4.4:
These are the makefiles that can be used on a 4.3Reno system when this software is installed in /usr/src/lib/libtelnet, /usr/src/libexec/telnetd, and /usr/src/usr.bin/telnet.

The following TELNET options are supported:

LINEMODE:
The LINEMODE option is supported as per RFC1116. The
FORWARDMASK option is not currently supported.

BINARY: The client has the ability to turn on/off the BINARY option in each direction. Turning on BINARY from server to client causes the LITOUT bit to get set in the terminal driver on both ends, turning on BINARY from the client to the server causes the PASS8 bit to get set in the terminal driver on both ends.

TERMINAL-TYPE:
This is supported as per RFC1091. On the server side, when a terminal type is received, termcap/terminfo is consulted to determine if it is a known terminal type. It keeps requesting terminal types until it gets one that it recognizes, or hits the end of the list. The server side looks up the entry in the termcap/terminfo data base, and generates a list of names which it then passes one at a time to each request for a terminal type, duplicating the last entry in the list before cycling back to the beginning.

NAWS: The Negotiate about Window Size, as per RFC 1073.

TERMINAL-SPEED:
Implemented as per RFC 1079

TOGGLE-FLOW-CONTROL:
Implemented as per RFC 1080

TIMING-MARK:
As per RFC 860

SGA: As per RFC 858

ECHO: As per RFC 857

LOGOUT: As per RFC 727

STATUS:
The server will send its current status upon request. It does not ask for the clients status. The client will request the servers current status from the "send getstatus" command.

ENVIRON:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued, but should be in the near future...
X-DISPLAY-LOCATION:
This functionality can be done through the ENVIRON
option, it is added here for completeness.

AUTHENTICATION:
This option is currently being defined by the IETF
Telnet Working Group, and an RFC has not yet been
issued. The basic framework is pretty much decided,
but the definitions for the specific authentication
schemes is still in a state of flux.

ENCRYPTION:
This option is currently being defined by the IETF
Telnet Working Group, and an RFC has not yet been
issued. The draft RFC is still in a state of flux,
so this code may change in the future.
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GSS-API CFX, SPNEGO, naming extensions, API extensions.
KCM credential cache.
HDB LDAP backend.

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9516
AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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Windows support

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lib/hcrypto/test_dh.c

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    margin-top: 0.05em;
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Release Notes:

popper-1.831beta is no longer beta
30 July 91

Removed popper-1.7.tar.Z

popper-1.831beta.tar.Z
03 April 91

Changed mkstemp to mktemp for Ultrix. Sigh.

popper-1.83beta.tar.Z
27 March 91

This version fixes problems on Encore MultiMax and some Sun releases which wouldn't allow a user to ftruncate() a file from an open file descriptor unless the user owns the file. Now the user...
owns the /usr/spool/mail/.userid.pop file. Thanks to Ben Levy of FTP Software and Henry Holtzman of Apple.

popper-1.81beta.tar.Z 20 March 91

This version of popper is supposed to fix three problems reported with various versions of popper (all called 1.7 or 1.7something).

1) Dropped network connections meant lost mail files. Some 1.7 versions also risked corrupting mail files.

2) Some versions of 1.7 created temporary drop files with world read and write permissions.

3) Some versions of 1.7 were not careful about opening the temporary drop file.

popper-1.7.tar.Z 09 September 90 (updated 20 March 91)

This version will exhibit the first problem listed above if it is compiled with -DDEBUG and run without the "-d" (debug) flag.

If it is compiled without -DDEBUG it will exhibit only the second and third bug listed above.

Cliff Frostpoptest@nettlesome.berkeley.edu
UC Berkeley

Heimdal is a Kerberos 5 implementation.

For information how to install see <http://www.h5l.org/compile.html>.

There are briefer man pages for most of the commands.

Bug reports and bugs are appreciated, see more under Bug reports in the manual on how we prefer them: <heimdal-bugs@h5l.org>.

For more information see the web-page at <http://www.h5l.org/> or the mailing lists:

heimdal-announce@sics.se low-volume announcement
heimdal-discuss@sics.se high-volume discussion

send a mail to heimdals-announce-request@sics.se and heimdals-discuss-request@sics.se respectively to subscribe. This kerberized popper was based on popper-1.831beta which was later announced as "offical" and not beta.
This program is able to talk both the pop3 and the kpop3 protocol.

Please note that the server principal is pop.hostname and not rcmd.hostname. I.e an additional entry is needed in your mailhub's /etc/srvtab. Use ksrvutil to add the extra prinicpal.

The server is usually started from inetd and there is already an entry for that in inetd.conf.changes.
This is a set of patches and files to get a DFS ticket from a k5 ticket.
This code comes from Doug Engert, Argonne Nat. Lab (See dce/README.original for more info)

The files in dce are;
testpag: for testing if this is at all possible.
k5dfspag: included in libkrb5
k5dcecon: Creates (or searches for) the actual DFSPAG ticketfile.
dpagaix: An AIX syscall stub.
README.original: Original README file from Doug Engert

Certain applications (rshd/telnetd) have been patched to call the functions in k5dfspag when the situation is right. They are ifdef with DCE. The patches are also originally from Doug but they where against MIT krb5 code and have been merged into heimdal by me. I will try to fix ftpd soon...

There is also an ifdefs for DCE && AIX that can be used to make AIX use DCE for getting group/passwd entries. This is needed if one is running with a bare bones passwd/group file and AUTHSTATE set to DCE (This will be more or less clear to people doing this...) I have forced this on for now.

k5dfspag.c is in lib/krb5
k5dcecon is dependent on DCE only.
It is also POSIX systems only. There are defines for the location of k5dcecon and dpagaix that needs a correct configure setting.

k5dcecon needs no special things for the compile except whatever is needed on the target system to compile dce programs.
(On aix the dce compile flags are: -D_THREAD_SAFE -D_AIX32_THREADS=1 -D_AIX41 -D_AES_SOURCE or one can use xlc_r4 if it is version 3.6.4 or later)

k5dcecon wants the following libs (on aix 4.3):
-idce (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dfspag.c).
dpagaix needs dfspag.exp and is linked with ld -ldpaginaix -o dpagaix dpagaix.o dfspag.exp
Hope to get this into heimdal soon :-) although I know that you will have to change some things to get it cleanly into configure. Since I don’t know the structure of the code (heimdal), nor enough of configure, good enough I just won’t try it myself.

One more thing, to get this to work one has to put fcache_version = x in krb5.conf where x = whatever the DCE implementation understands, (usually 1 or 2).
Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)
HPC2N
Ume” University
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this all cleanly (I hope) into heimdal.

Note on ksu
-------------
This program is not installed setuid root be default. If you want to install it setuid root, then you can override the package permissions with:

dpkg-statoverride --update --add root root 4755 /usr/bin/ksu

Note on ipropd and/or hpropd
----------------------------
The following entries may be required in you /etc/services file (see bug #139845):

<table>
<thead>
<tr>
<th>Service</th>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>krb_prop</td>
<td>754/tcp</td>
<td>Kerberos slave propagation</td>
</tr>
<tr>
<td>iprop</td>
<td>2121/tcp</td>
<td>Incremental propagation</td>
</tr>
</tbody>
</table>

Note on kerberos.8 man page
----------------------------
This man page is not currently included due to conflict with kerberos4kth-kdc package. For more information on Kerberos, see:

Installing heimdal for Debian
-------------------------------
(Note: if you do not have a krb4 KDC, you may need to include "krb4_get_tickets = no" in the [libdefaults] section of kdc.conf; otherwise kinit will complain with an error).
Things you will have to do manually (see info documentation for details):

On KDC:
1. Add administrator keys using kadmin.

For example:
# kadmin -l
kadmin> add bam/admin
Max ticket life [unlimited]:
Max renewable life [unlimited]:
Principal expiration time [never]:
Password expiration time [never]:
Attributes []:
bam/admin@CHOCBIT.ORG.AU's Password:
Verifying password - bam/admin@CHOCBIT.ORG.AU’s Password:

2. Add kadmin/admin key to KDC:

For example:
# kadmin -l
kadmin> add -r kadmin/admin@CHOCBIT.ORG.AU
Max ticket life [unlimited]:
Max renewable life [unlimited]:
Principal expiration time [never]:
Password expiration time [never]:
Attributes []:

(note: this key doesn't need to be extracted).

3. Enable remote administration by creating /etc/heimdal-kdc/kadmind.acl

For example:
echo 'bam/admin@CHOCBIT.ORG.AU all' > /etc/heimdal-kdc/kadmind.acl

4. Test.

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU’s Password:
kadmin> list *
[should list all keys]

5. Add user keys

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add bam

On other computers:
1. If you installed heimdal-clients-x or heimdal-servers-x, then you will need to add the following entry to /etc/services
   kx 2111/tcp # X over kerberos
   (check to make sure this doesn't already exist).
2. edit /etc/krb5.conf
3. setup secret keys each computer, using kadmin and/or ktutil.

For example, on remote computer dewey.chocbit.org.au:
   bam/admin@CHOCBIT.ORG.AU's Password:
   kadmin> add -r host/dewey.chocbit.org.au
   [...] kadmin> ext host/dewey.chocbit.org.au
   kadmin> add -r ftp/dewey.chocbit.org.au
   [...] kadmin> ext ftp/dewey.chocbit.org.au

The ext command extracts keys to /etc/krb5.keytab, where
they can be inspected with the "ktutil list" command at the
shell prompt.

Tell me if any files conflict with any other package - do not
try to force the package to install, otherwise things may break...
In general, this package conflicts with kerberos4kth and
probably MIT Kerberos (not packaged as of potato). Local
installations under /usr/local should be OK.

Changes from upstream source:
1. popper checks for $HOME/Maildir, $HOME/Mailbox and /var/spool/mail/<user>
in that order.
2. /var/lib/heimdal-kdc used instead of /var/heimdal
3. /usr/bin/login moved to /usr/lib/heimdal-servers
4. /usr/lib/heimdal-servers used instead of /usr/libexec
5. telnet and ftp have been renamed to ktelnet and kftp, and
   use the update-alternatives mechanism. In the future, this
   should allow heimdal-clients to exist at the same time
   as telnet-ssl.
6. kdc config files kdc.conf and kadmind.acl stored in
   /etc/heimdal-kdc instead of /usr/lib/heimdal-servers.

Automatically creating users
-----------------------------------

Option #1: Use perl glue found at
<ftp://ftp.su.se/pub/users/leifj/Heimdal-Kadm5-0.04.tar.gz>
Option #2: cat kadmin-commands | kadmin

For more details, see <http://bugs.debian.org/276402>.

-- Brian May <bam@debian.org>, Wed, 8 Dec 1999 11:54:13 +1100

-- in order of preference

- client: support KRB5_PADATA_ENCRYPTED_CHALLENGE in lib/krb5/init_creds_pw.c
- client: don't support ENC-TS in FAST

- client: plugin support for fast plugins

- kdc: plugin support for fast plugins
partly done with "struct kdc_patypes"

- kcm: support FAST armor ticket
-- using PK-INIT anonymous
-- using host key

- client: tgs-req fast support
- kdc: tgs-req fast support

This is a distribution of both client and server telnet. These programs
have been compiled on:
telnet telnetd
telnetd
4.4 BSD-Lite  x  x
4.3 BSD Reno  X  X
UNICOS 9.1  X  X
UNICOS 9.0  X  X
UNICOS 8.0  X  X
BSDI 2.0  X  X
Solaris 2.4  x  x (no linemode in server)
SunOs 4.1.4  X  X (no linemode in server)
Ultrix 4.3  X  X (no linemode in server)
Ultrix 4.1  X  X (no linemode in server)

In addition, previous versions have been compiled on the following
machines, but were not available for testing this version.
telnet telnetd
telnetd
Next1.0  X  X
UNICOS 8.3  X  X
UNICOS 7.C  X  X
UNICOS 7.0  X  X
SunOs 4.0.3c  X  X (no linemode in server)
4.3 BSD  X  X (no linemode in server)
DYNIX V3.0.12  X  X (no linemode in server)
Ulrix 3.1  X  X (no linemode in server)
Ulrix 4.0  X  X (no linemode in server)
SunOs 3.5  X  X (no linemode in server)
SunOs 4.1.3  X  X (no linemode in server)
Solaris 2.2  x  x (no linemode in server)
Solaris 2.3  x  x (no linemode in server)
BSDI 1.0  X  X
BSDI 1.1  X  X
DYNIX V3.0.17.9  X  X (no linemode in server)
HP-UX 8.0  x  x (no linemode in server)

This code should work, but there are no guarantees.

May 30, 1995

This release represents what is on the 4.4BSD-Lite2 release, which should be the final BSD release. I will continue to support of telnet. The code (without encryption) is available via anonymous ftp from ftp.cray.com, in src/telnet/telnet.YY.MM.DD.NE.tar.Z, where YY.MM.DD is replaced with the year, month and day of the release. If you can't find it at one of these places, at some point in the near future information about the latest releases should be available from ftp.borman.com.

In addition, the version with the encryption code is available via ftp from net-dist.mit.edu, in the directory /pub/telnet. There is a README file there that gives further information on how to get the distribution.

Questions, comments, bug reports and bug fixes can be sent to one of these addresses:
dab@borman.com
dab@cray.com
dab@bsdi.com

This release is mainly bug fixes and code cleanup.

Replace all calls to bcopy()/bzero() with calls to memmove()/memset() and all calls to index()/rindex() with calls to strchr()/strrchr().

Add some missing diagnostics for option tracing to telnetd.

Add support for BSDI 2.0 and Solaris 2.4.

Add support for UNICOS 8.0
Get rid of expanded tabs and trailing white spaces.

From Paul Vixie:
Fix for telnet going into an endless spin when the session dies abnormally.

From Jef Poskanzer:
Changes to allow telnet to compile under SunOS 3.5.

From Philip Guenther:
makeutx() doesn't expand utmpx, use pututxline() instead.

From Chris Torek:
Add a sleep(1) before execing login to avoid race condition that can eat up the login prompt.
Use terminal speed directly if it is not an encoded value.

From Steve Parker:
Fix to realloc() call. Fix for execing login on solaris with no user name.

January 19, 1994

This is a list of some of the changes since the last tar release of telnet/telnetd. There are probably other changes that aren't listed here, but this should hit a lot of the main ones.

General:
Changed #define for AUTHENTICATE to AUTHENTICATION
Changed #define for ENCRYPT to ENCRYPTION
Changed #define for DES_ENCRYPT to DES_ENCRYPTION

Added support for SPX authentication: -DSPX

Added support for Kerberos Version 5 authentication: -DKRB5

Added support for ANSI C function prototypes

Added support for the NEW-ENVIRON option (RFC-1572) including support for USERVAR.

Made support for the old Environment Option (RFC-1408) conditional on -DOLD_ENVIRON
Added #define ENV_HACK - support for RFC 1571

The encryption code is removed from the public distributions. Domestic 4.4 BSD distributions contain the encryption code.

ENV_HACK: Code to deal with systems that only implement the old ENVIRON option, and have reversed definitions of ENV_VAR and ENV_VAL. Also fixes ENV processing in client to handle things besides just the default set...

NO_BSD_SETJMP: UNICOS configuration for UNICOS 6.1/6.0/5.1/5.0 systems.

STREAMSPTY: Use /dev/ptmx to get a clean pty. This is for SVr4 derivatives (Like Solaris)

UTMPX: For systems that have /etc/utmpx. This is for SVr4 derivatives (Like Solaris)

Definitions for BSDI 1.0

Definitions for 4.3 Reno and 4.4 BSD.

Definitions for UNICOS 8.0 and UNICOS 7.C

Definitions for Solaris 2.0

Definitions for HP-UX 8.0

Latest Copyright notices from Berkeley.

FLOW-CONTROL: support for RFC-XXXx

Client Specific:

Fix the "send" command to not send garbage...

Fix status message for "skiprc"

Make sure to send NAWS after telnet has been suspended or an external command has been run, if the window size has changed.

sysV88 support.

Server Specific:
Support flowcontrol option in non-linemode servers.

-k Server supports Kludge Linemode, but will default to either single character mode or real Linemode support. The user will have to explicitly ask to switch into kludge linemode. ("stty extproc", or escape back to telnet and say "mode line".)

-u Specify the length of the hostname field in the utmp file. Hostname longer than this length will be put into the utmp file in dotted decimal notation, rather than putting in a truncated hostname.

-U Registered hosts only. If a reverse hostname lookup fails, the connection will be refused.

-f/-F
   Allows forwarding of credentials for KRB5.

February 22, 1991:

Features:

This version of telnet/telnetd has support for both the AUTHENTICATION and ENCRYPTION options. The AUTHENTICATION option is fairly well defined, and an option number has been assigned to it. The ENCRYPTION option is still in a state of flux; an option number has been assigned to, but it is still subject to change. The code is provided in this release for experimental and testing purposes.

The telnet "send" command can now be used to send do/dont/will/wont commands, with any telnet option name. The rules for when do/dont/will/wont are sent are still followed, so just because the user requests that one of these be sent doesn't mean that it will be sent.

The telnet "getstatus" command no longer requires that option printing be enabled to see the response to the "DO STATUS" command.

A -n flag has been added to telnetd to disable keepalives.

A new telnet command, "auth" has been added (if AUTHENTICATE is defined). It has four sub-commands,
"status", "disable", "enable" and "help".

A new telnet command, "encrypt" has been added (if ENCRYPT is defined). It has many sub-commands: 
"enable", "type", "start", "stop", "input", 
"-input", "output", "-output", "status", and "help".

The LOGOUT option is now supported by both telnet and telnetd, a new command, "logout", was added to support this.

Several new toggle options were added:
"autoencrypt", "autodecrypt", "autologin", "authdebug", 
"encdebug", "skiprc", "verbose_encrypt"

An "rlogin" interface has been added. If the program is named "rlogin", or the "-r" flag is given, then an rlogin type of interface will be used.
~. Terminates the session
~<susp> Suspend the session
~^] Escape to telnet command mode
~~ Pass through the ~.

BUG: If you type the rlogin escape character in the middle of a line while in rlogin mode, you cannot erase it or any characters before it. Hopefully this can be fixed in a future release...

General changes:

A "libtelnet.a" has now been created. This libraray contains code that is common to both telnet and telnetd. This is also where library routines that are needed, but are not in the standard C library, are placed.

The makefiles have been re-done. All of the site specific configuration information has now been put into a single "Config.generic" file, in the top level directory. Changing this one file will take care of all three subdirectories. Also, to add a new/local definition, a "Config.local" file may be created at the top level; if that file exists, the subdirectories will use that file instead of "Config.generic".

Many 1-2 line functions in commands.c have been removed, and just inserted in-line, or replaced with a macro.
Bug Fixes:

The non-termio code in both telnet and telnetd was setting/clearing CTLECH in the sg_flags word. This was incorrect, and has been changed to set/clear the LCTLECH bit in the local mode word.

The SRCRT #define has been removed. If IP_OPTIONS and IPPROTO_IP are defined on the system, then the source route code is automatically enabled.

The NO_GETTYTAB #define has been removed; there is a compatibility routine that can be built into libtelnet to achieve the same results.

The server, telnetd, has been switched to use getopt() for parsing the argument list.

The code for getting the input/output speeds via cfgetispeed()/cfgetospeed() was still not quite right in telnet. Posix says if the ispeed is 0, then it is really equal to the ospeed.

The suboption processing code in telnet now has explicit checks to make sure that we received the entire suboption (telnetd was already doing this).

The telnet code for processing the terminal type could cause a core dump if an existing connection was closed, and a new connection opened without exiting telnet.

Telnetd was doing a TCSADRAIN when setting the new terminal settings; This is not good, because it means that the tcsetattr() will hang waiting for output to drain, and telnetd is the only one that will drain the output... The fix is to use TCSANOW which does not wait.

Telnetd was improperly setting/clearing the ISTRIP flag in the c_iflag field, it should be using the c_iflag field.

When the child process of telnetd was opening the slave side of the pty, it was re-setting the EXTPROC bit too early, and some of the other initialization code was wiping it out. This would cause telnetd
to go out of linemode and into single character mode.

One instance of leaving linemode in telnetd forgot to send a WILL ECHO to the client, the net result would be that the user would see double character echo.

If the MODE was being changed several times very quickly, telnetd could get out of sync with the state changes and the returning acks; and wind up being left in the wrong state.

September 14, 1990:

Switch the client to use getopt() for parsing the argument list. The 4.3Reno getopt.c is included for systems that don't have getopt().

Use the posix _POSIX_VDISABLE value for what value to use when disabling special characters. If this is undefined, it defaults to 0x3ff.

For non-termio systems, TIOCSETP was being used to change the state of the terminal. This causes the input queue to be flushed, which we don't want. This is now changed to TIOCSETN.

Take out the "#ifdef notdef" around the code in the server that generates a "sync" when the pty oputput is flushed. The potential problem is that some older telnet clients may go into an infinite loop when they receive a "sync", if so, the server can be compiled with "NO_URGENT" defined.

Fix the client where it was setting/clearing the OPOST bit in the c_lflag field, not the c_oflag field.

Fix the client where it was setting/clearing the ISTRIP bit in the c_lflag field, not the c_iflag field. (On 4.3Reno, this is the ECHOPRT bit in the c_lflag field.) The client also had its interpretation of WILL BINARY and DO BINARY reversed.

Fix a bug in client that would cause a core dump when attempting to remove the last environment variable.

In the client, there were a few places were switch() was being passed a character, and if it was a negative
value, it could get sign extended, and not match
the 8 bit case statements. The fix is to and the
switch value with 0xff.

Add a couple more printoption() calls in the client, I
don't think there are any more places were a telnet
cmdcan be received and not printed out when
"options" is on.

A new flag has been added to the client, ",-a". Currently,
this just causes the USER name to be sent across, in
the future this may be used to signify that automatic
authentication is requested.

The USER variable is now only sent by the client if
the "-a" or "-l user" options are explicidy used, or
if the user explicitly asks for the "USER" environment
variable to be exported. In the server, if it receives
the "USER" environment variable, it won't print out the
banner message, so that only "Password:" will be printed.
This makes the symantics more like rlogin, and should be
more familiar to the user. (People are not used to
getting a banner message, and then getting just a
"Password:" prompt.)

Re-vamp the code for starting up the child login
process. The code was getting ugly, and it was
hard to tell what was really going on. What we
do now is after the fork(), in the child:
1) make sure we have no controlling tty
2) open and initialize the tty
3) do a setsid()/setpgrp()
4) makes the tty our controlling tty.
On some systems, #2 makes the tty our controlling
tty, and #4 is a no-op. The parent process does
a gets rid of any controlling tty after the child
is fork( )ed.

Use the strdup() library routine in telnet, instead
of the local savestr() routine. If you don't have
strdup(), you need to define NO_STRDUP.

Add support for ^T (SIGINFO/VSTATUS), found in the
4.3Reno distribution. This maps to the AYT character.
You need a 4-line bugfix in the kernel to get this
to work properly:

> ***tty_pty.c.ORGTue Sep 11 09:41:53 1990
The client is now smarter when setting the telnet escape character; it only sets it to one of VEOL and VEOL2 if one of them is undefined, and the other one is not already defined to the telnet escape character.

Handle TERMIOS systems that have separate input and output line speed settings embedded in the flags.

Many other minor bug fixes.

June 20, 1990:
Re-organize makefiles and source tree. The telnet/Source directory is now gone, and all the source that was in telnet/Source is now just in the telnet directory.

Separate makefile for each system are now gone. There are two makefiles, Makefile and Makefile.generic. The "Makefile" has the definitions for the various system, and "Makefile.generic" does all the work. There is a variable called "WHAT" that is used to specify what to make. For example, in the telnet directory, you might say:
make 4.4bsd WHAT=clean
to clean out the directory.

Add support for the ENVIRON and XDISPLOC options.
In order for the server to work, login has to have the "-p" option to preserve environment variables.

Add the SOFT_TAB and LIT_ECHO modes in the LINEMODE support.
Add the "-l user" option to command line and open command (This is passed through the ENVIRON option).

Add the "-e" command line option, for setting the escape character.

Add the "-D", diagnostic, option to the server. This allows the server to print out debug information, which is very useful when trying to debug a telnet that doesn't have any debugging ability.

Turn off the literal next character when not in LINEMODE.

Don't recognize ^Y locally, just pass it through.

Make minor modifications for Sun4.0 and Sun4.1

Add support for both FORW1 and FORW2 characters. The telnet escape character is set to whichever of the two is not being used. If both are in use, the escape character is not set, so when in linemode the user will have to follow the escape character with a <CR> or <EOF) to get it passed through.

Commands can now be put in single and double quotes, and a backslash is now an escape character. This is needed for allowing arbitrary strings to be assigned to environment variables.

Switch telnetd to use macros like telnet for keeping track of the state of all the options.

Fix telnetd's processing of options so that we always do the right processing of the LINEMODE option, regardless of who initiates the request to turn it on. Also, make sure that if the other side went "WILL ECHO" in response to our "DO ECHO", that we send a "DONT ECHO" to get the option turned back off!

Fix the TERMIOS setting of the terminal speed to handle both BSD's seperate fields, and the SYSV method of CBAUD bits.

Change how we deal with the other side refusing to enable an option. The sequence used to be: send DO option; receive WONT option; send DONT option. Now, the sequence is: send DO option; receive WONT option. Both should be valid according to the spec, but there has been at least one
client implementation of telnet identified that can get really confused by this.  (The exact sequence, from a trace on the server side, is (numbers are number of responses that we expect to get after that line...):

send WILL ECHO1 (initial request)
send WONT ECHO2 (server is changing state)
recv DO ECHO1 (first reply, ok.  expect DONT ECHO next)
send WILL ECHO2 (server changes state again)
recv DONT ECHO1 (second reply, ok.  expect DO ECHO next)
recv DONT ECHO0 (third reply, wrong answer. got DONT!!!)
***send WONT ECHO (send WONT to acknowledge the DONT)
send WILL ECHO1 (ask again to enable option)
recv DO ECHO0
recv DONT ECHO0
send WONT ECHO1
recv DONT ECHO0
recv DO ECHO1
send WILL ECHO0
(and the last 5 lines loop forever)

The line with the "***" is last of the WILL/DONT/WONT sequence. The change to the server to not generate that makes this same example become:

send will ECHO1
send wont ECHO2
recv do ECHO1
send will ECHO2
recv dont ECHO1
recv dont ECHO0
recv do ECHO1
send will ECHO0

There is other option negotiation going on, and not sending the third part changes some of the timings, but this specific example no longer gets stuck in a loop. The "telnet.state" file has been modified to reflect this change to the algorithm.

A bunch of miscellaneous bug fixes and changes to make lint happier.

This version of telnet also has some KERBEROS stuff in it. This has not been tested, it uses an un-authorized telnet option number, and uses an out-of-date version of the (still being defined) AUTHENTICATION option. There is no support for this code, do not enable it.
March 1, 1990:

CHANGES/BUGFIXES SINCE LAST RELEASE:
Some support for IP TOS has been added. Requires that the
kernel support the IP_TOS socket option (currently this
is only in UNICOS 6.0).

Both telnet and telnetd now use the cc_t typedef. typedefs are
included for systems that don't have it (in termios.h).

SLC_SUSP was not supported properly before. It is now.

IAC EOF was not translated properly in telnetd for SYSV_TERMIO
when not in linemode. It now saves a copy of the VEOF character,
so that when ICANON is turned off and we can't trust it anymore
(because it is now the VMIN character) we use the saved value.

There were two missing "break" commands in the linemode
processing code in telnetd.

Telnetd wasn't setting the kernel window size information
properly. It was using the rows for both rows and columns...

Questions/comments go to
David Borman
Cray Research, Inc.
655F Lone Oak Drive
Eagan, MN 55123
dab@cray.com.

README: You are reading it.

Config.generic:
This file contains all the OS specific definitions. It
has pre-definitions for many common system types, and is
in standard makefile format. See the comments at the top
of the file for more information.

Config.local:
This is not part of the distribution, but if this file exists,
it is used instead of "Config.generic". This allows site
specific configuration without having to modify the distributed
"Config.generic" file.

kern.diff:
This file contains the diffs for the changes needed for the
kernel to support LINEMODE is the server. These changes are
for a 4.3BSD system. You may need to make some changes for your particular system.

There is a new bit in the terminal state word, TS_EXTPROC. When this bit is set, several aspects of the terminal driver are disabled. Input line editing, character echo, and mapping of signals are all disabled. This allows the telnetd to turn off these functions when in linemode, but still keep track of what state the user wants the terminal to be in.

New ioctl(s):

TIOCSEXIT Turn on/off the TS_EXTPROC bit
TIOCGSTATE Get t_state of tty to look at TS_EXTPROC bit
TIOCSIG Generate a signal to processes in the current process group of the pty.

There is a new mode for packet driver, the TIOCPKT_IOCTL bit. When packet mode is turned on in the pty, and the TS_EXTPROC bit is set, then whenever the state of the pty is changed, the next read on the master side of the pty will have the TIOCPKT_IOCTL bit set, and the data will contain the following:

```
struct xx {
    struct sgttyb a;
    struct tchars b;
    struct ltchars c;
    int t_state;
    int t_flags;
}
```

This allows the process on the server side of the pty to know when the state of the terminal has changed, and what the new state is.

However, if you define USE_TERMIO or SYSV_TERMIO, the code will expect that the structure returned in the TIOCPKT_IOCTL is the termio/termios structure.

stty.diff:
This file contains the changes needed for the stty(1) program to report on the current status of the TS_EXTPROC bit. It also allows the user to turn on/off the TS_EXTPROC bit. This is useful because it allows the user to say "stty -extproc", and the LINEMODE option will be automatically disabled, and saying "stty extproc" will re-enable the LINEMODE option.

telnet.state:
Both the client and server have code in them to deal with option negotiation loops. The algorithm that is
used is described in this file.

telnet:
This directory contains the client code. No kernel changes are needed to use this code.

telnetd:
This directory contains the server code. If LINEMODE or KLUDGELINEMODE are defined, then the kernel modifications listed above are needed.

libtelnet:
This directory contains code that is common to both the client and the server.

arpa:
This directory has a new <arpa/telnet.h>

libtelnet/Makefile.4.4:
telnet/Makefile.4.4:
telnetd/Makefile.4.4:
These are the makefiles that can be used on a 4.3Reno system when this software is installed in /usr/src/lib/libtelnet, /usr/src/libexec/telnetd, and /usr/src/usr.bin/telnet.

The following TELNET options are supported:

LINEMODE:
The LINEMODE option is supported as per RFC1116. The FORWARDMASK option is not currently supported.

BINARY: The client has the ability to turn on/off the BINARY option in each direction. Turning on BINARY from server to client causes the LITOUT bit to get set in the terminal driver on both ends, turning on BINARY from the client to the server causes the PASS8 bit to get set in the terminal driver on both ends.

TERMINAL-TYPE:
This is supported as per RFC1091. On the server side, when a terminal type is received, termcap/terminfo is consulted to determine if it is a known terminal type. It keeps requesting terminal types until it gets one that it recognizes, or hits the end of the list. The server side looks up the entry in the termcap/terminfo data base, and generates a list of names which it then passes one at a time to each request for a terminal type, duplicating the last
entry in the list before cycling back to the beginning.

NAWS: The Negotiate about Window Size, as per RFC 1073.

TERMINAL-SPEED:
Implemented as per RFC 1079

TOGGLE-FLOW-CONTROL:
Implemented as per RFC 1080

TIMING-MARK:
As per RFC 860

SGA: As per RFC 858

ECHO: As per RFC 857

LOGOUT: As per RFC 727

STATUS:
The server will send its current status upon request. It does not ask for the clients status. The client will request the servers current status from the "send getstatus" command.

ENVIRON:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued, but should be in the near future...

X-DISPLAY-LOCATION:
This functionality can be done through the ENVIRON option, it is added here for completeness.

AUTHENTICATION:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued. The basic framework is pretty much decided, but the definitions for the specific authentication schemes is still in a state of flux.

ENCRYPTION:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued. The draft RFC is still in a state of flux, so this code may change in the future.

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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@copynext

@heading Secure Endpoints Inc

Windows support

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It was downloaded from http://www.pdc.kth.se/heimdal/

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1.202 libheimbase1-heimdal:amd64
1.7~git20150920+dfsg :4ubuntu1.16.04.1

1.202.1 Available under license:

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This kerberized popper was based on popper-1.831beta which was later announced as "official" and not beta.

This program is able to talk both the pop3 and the kpop3 protocol.

Please note that the server principal is pop.hostname and not rcmd.hostname. I.e an additional entry is needed in your mailhub's /etc/srvtab. Use ksrvutil to add the extra principal.

The server is usually started from inetd and there is already an entry for that in inetd.conf.changes.

This is a set of patches and files to get a DFS ticket from a k5 ticket.
This code comes from Doug Engert, Argonne Nat. Lab (See dce/README.original for more info)

The files in dce are:

testpag: for testing if this is at all possible.
k5dfspsg: included in libkrb5
k5dcecon: Creates (or searches for) the actual DFSPAG ticketfile.
dpagaix: An AIX syscall stub.

README.original: Original README file from Doug Engert

Certain applications (rshd/telnetd) have been patched to call the functions in k5dfspsg when the situation is right. They are ifdef with DCE. The patches are also originally from Doug but they
where against MIT krb5 code and have been merged into heimdal by me. I will try to fix ftpd soon...

There is also an ifdef for DCE && AIX that can be used to make AIX use DCE for getting group/passwd entries. This is needed if one is running with a bare bones passwd/group file and AUTHSTATE set to DCE (This will be more or less clear to people doing this...) I have forced this on for now.

k5dfspag.c is in lib/krb5
k5dfspag.c is dependent on DCE only. It is also POSIX systems only. There are defines for the location of k5dcecon and dpagaix that needs a correct configure setting.

k5dcecon needs no special things for the compile except whatever is needed on the target system to compile dce programs. (On aix the dce compile flags are: -D_THREAD_SAFE -D_AIX32_THREADS=1 -D_AIX41 -D_AES_SOURCE or one can use xlc_r4 if it is version 3.6.4 or later)

k5dcecon wants the following libs (on aix 4.3):
  -ldce (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dfspag.c). dpagaix needs dfspag.exp and is linked with
  ld -edpagaix -o dpagaix dpagaix.o dfspag.exp

Hope to get this into heimdal soon :-) although I know that you will have to change some things to get it cleanly into configure. Since I don't know the structure of the code (heimdal), nor enough of configure, good enough I just won't try it myself.

One more thing, to get this to work one has to put fcache_version = x in krb5.conf where x = whatever the DCE implementation understands, (usually 1 or 2).
Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)
HPC2N
Umeå University
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this all cleanly (I hope) into heimdal.

-- in order of preference
- client: support KRB5_PADATA_ENCRYPTED_CHALLENGE in lib/krb5/init_creds_pw.c
- client: don't support ENC-TS in FAST

- client: plugin support for fast plugins

- kdc: plugin support for fast plugins
partly done with "struct kdc_patypes"

- kcm: support FAST armor ticket
  -- using PK-INIT anonymous
  -- using host key

- client: tgs-req fast support
- kdc: tgs-req fast support
This package was debianized by Brian May <bam@snoopy.apana.org.au> on

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**1.203 libheimntlm0-heimdal:amd64**

**1.7~git20150920+dfsg :4ubuntu1.16.04.1**

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Release Notes:

popper-1.831beta is no longer beta30 July 91
Removed popper-1.7.tar.Z
popper-1.831beta.tar.Z 03 April 91
Changed mkstemp to mktemp for Ultrix. Sigh.

popper-1.83beta.tar.Z 02 April 91
This version makes certain that while running as root we do nothing at all destructive.

popper-1.82beta.tar.Z 27 March 91
This version fixes problems on Encore MultiMax and some Sun releases which wouldn't allow a user to ftruncate() a file from an open file descriptor unless the user owns the file. Now the user owns the /usr/spool/mail/.userid.pop file. Thanks to Ben Levy of FTP Software and Henry Holtzman of Apple.

popper-1.81beta.tar.Z 20 March 91
This version of popper is supposed to fix three problems reported with various versions of popper (all called 1.7 or 1.7something).

1) Dropped network connections meant lost mail files. Some 1.7 versions also risked corrupting mail files.

2) Some versions of 1.7 created temporary drop files with world read and write permissions.

3) Some versions of 1.7 were not careful about opening the temporary drop file.

popper-1.7.tar.Z 09 September 90(updated 20 March 91)
This version will exhibit the first problem listed above if it is compiled with -DDEBUG and run without the "-d" (debug) flag.

If it is compiled without -DDEBUG it will exhibit only the second and third bug listed above.

Cliff Frost
poptest@nettlesome.berkeley.edu
UC Berkeley

Heimdal is a Kerberos 5 implementation.

For information how to install see <http://www.h5l.org/compile.html>.

There are briefer man pages for most of the commands.
Bug reports and bugs are appreciated, see more under Bug reports in the manual on how we prefer them: <heimdal-bugs@h5l.org>.

For more information see the web-page at <http://www.h5l.org/> or the mailing lists:

heimdal-announce@sics.selow-volume announcement
heimdal-discuss@sics seh-volume discussion

send a mail to heimdal-announce-request@sics.se and heimdal-discuss-request@sics.se respectively to subscribe.
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k5dcecon wants the following libs (on aix 4.3):
-ldcde (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dfspag.c).
dpagaix needs dfspag.exp and is linked with
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Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)  
HPC2N  
Ume" University  
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this all cleanly (I hope) into heimdal.

Note on ksu
----------
This program is not installed setuid root be default. If you want to install it setuid root, then you can override the package permissions with:

dpkg-statoverride --update --add root root 4755 /usr/bin/ksu

Note on ipropd and/or hpropd
----------------------------
The following entries may be required in you /etc/services file (see bug #139845):

    krb_prop    754/tcp # Kerberos slave propagation
iprop 2121/tcp # incremental propagation

Note on kerberos.8 man page
---------------------------
This man page is not currently included due to conflict with kerberos4kth-kdc package. For more information on Kerberos, see:

Installing heimdal for Debian
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(Note: if you do not have a krb4 KDC, you may need to include "krb4_get_tickets = no" in the [libdefaults] section of kdc.conf; otherwise kinit will complain with an error).

Things you will have to do manually (see info documentation for details):

On KDC:
1. Add administrator keys using kadmin.

   For example:
   # kadmin -l
   kadmin> add bam/admin
   Max ticket life [unlimited]:
   Max renewable life [unlimited]:
   Principal expiration time [never]:
   Password expiration time [never]:
   Attributes []:
   bam/admin@CHOCBIT.ORG.AU's Password:
   Verifying password - bam/admin@CHOCBIT.ORG.AU's Password:

   2. Add kadmin/admin key to KDC:

      For example:
      # kadmin -l
      kadmin> add -r kadmin/admin@CHOCBIT.ORG.AU
      Max ticket life [unlimited]:
      Max renewable life [unlimited]:
      Principal expiration time [never]:
      Password expiration time [never]:
      Attributes []:

      (note: this key doesn't need to be extracted).

   3. Enable remote admistration by creating /etc/heimdal-kdc/kadmind.acl

      For example:
      echo 'bam/admin@CHOCBIT.ORG.AU all' > /etc/heimdal-kdc/kadmind.acl
4. Test.

For example:
```
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> list *
[should list all keys]
```

5. Add user keys

For example:
```
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add bam
```

On other computers:
1. If you installed heimdal-clients-x or heimdal-servers-x, then you will need to add the following entry to /etc/services
```
kx              2111/tcp                        # X over kerberos
```
(check to make sure this doesn't already exist).
2. edit /etc/krb5.conf
3. setup secret keys each computer, using kadmin and/or ktutil.

For example, on remote computer dewey.chocbit.org.au:
```
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add -r host/dewey.chocbit.org.au
[...]
kadmin> ext host/dewey.chocbit.org.au
kadmin> add -r ftp/dewey.chocbit.org.au
[...]
kadmin> ext ftp/dewey.chocbit.org.au
```

The ext command extracts keys to /etc/krb5.keytab, where they can be inspected with the "ktutil list" command at the shell prompt.

Tell me if any files conflict with any other package - do not try to force the package to install, otherwise things may break...

In general, this package conflicts with kerberos4kth and probably MIT Kerberos (not packaged as of potato). Local installations under /usr/local should be OK.

Changes from upstream source:
1. popper checks for $HOME/Maildir, $HOME/Mailbox and /var/spool/mail/<user> in that order.
2. /var/lib/heimdal-kdc used instead of /var/heimdal
3. /usr/bin/login moved to /usr/lib/heimdal-servers
4. /usr/lib/heimdal-servers used instead of /usr/libexec
5. telnet and ftp have been renamed to ktelnet and kftp, and use the update-alternatives mechanism. In the future, this should allow heimdal-clients to exist at the same time as telnet-ssl.
6. kdc config files kdc.conf and kadmind.acl stored in /etc/heimdal-kdc instead of /usr/lib/heimdal-servers.

Automatically creating users
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Option #1: Use perl glue found at
<ftp://ftp.su.se/pub/users/leifj/Heimdal-Kadm5-0.04.tar.gz>

Option #2: cat kadmin-commands | kadmin

For more details, see <http://bugs.debian.org/276402>.

-- Brian May <bam@debian.org>, Wed, 8 Dec 1999 11:54:13 +1100

-- in order of preference

- client: support KRB5_PADATA_ENCRYPTED_CHALLENGE in lib/krb5/init_creds_pw.c
- client: don't support ENC-TS in FAST

- client: plugin support for fast plugins

- kdc: plugin support for fast plugins
  partly done with "struct kdc_patypes"

- kcm: support FAST armor ticket
  -- using PK-INIT anonymous
  -- using host key

- client: tgs-req fast support
- kdc: tgs-req fast support

This is a distribution of both client and server telnet. These programs have been compiled on:
telnet
telnetd
4.4 BSD-Lite  x  x
4.3 BSD Reno  X  X
UNICOS 9.1  X  X
UNICOS 9.0  X  X
UNICOS 8.0  X  X
BSDI 2.0  X  X
Solaris 2.4  x  x (no linemode in server)
In addition, previous versions have been compiled on the following machines, but were not available for testing this version.

telnet
telnetd
Next1.0 X X
UNICOS 8.3 X X
UNICOS 7.C X X
UNICOS 7.0 X X
SunOs 4.0.3c X X (no linemode in server)
4.3 BSD X X (no linemode in server)
DYNIX V3.0.12 X X (no linemode in server)
Ultrix 3.1 X X (no linemode in server)
Ultrix 4.0 X X (no linemode in server)
SunOs 3.5 X X (no linemode in server)
SunOs 4.1.3 X X (no linemode in server)
Solaris 2.2 X X (no linemode in server)
Solaris 2.3 X X (no linemode in server)
BSDI 1.0 X X
BSDI 1.1 X X
DYNIX V3.0.17.9 X X (no linemode in server)
HP-UX 8.0 X X (no linemode in server)

This code should work, but there are no guarantees.

May 30, 1995

This release represents what is on the 4.4BSD-Lite2 release, which should be the final BSD release. I will continue to support of telnet. The code (without encryption) is available via anonymous ftp from ftp.cray.com, in src/telnet/telnet.YY.MM.DD.NE.tar.Z, where YY.MM.DD is replaced with the year, month and day of the release. If you can't find it at one of these places, at some point in the near future information about the latest releases should be available from ftp.borman.com.

In addition, the version with the encryption code is available via ftp from net-dist.mit.edu, in the directory /pub/telnet. There is a README file there that gives further information on how to get the distribution.

Questions, comments, bug reports and bug fixes can be sent to one of these addresses:
dab@borman.com
dab@cray.com
dab@bsdi.com
This release is mainly bug fixes and code cleanup.

Replace all calls to bcopy()/bzero() with calls to memmove()/memset() and all calls to index()/rindex() with calls to strchr()/strrchr().

Add some missing diagnostics for option tracing to telnetd.

Add support for BSDI 2.0 and Solaris 2.4.

Add support for UNICOS 8.0

Get rid of expanded tabs and trailing white spaces.

From Paul Vixie:
Fix for telnet going into an endless spin when the session dies abnormally.

From Jef Poskanzer:
Changes to allow telnet to compile under SunOS 3.5.

From Philip Guenther:
makeutx() doesn’t expand utmpx, use pututxline() instead.

From Chris Torek:
Add a sleep(1) before execing login to avoid race condition that can eat up the login prompt.
Use terminal speed directly if it is not an encoded value.

From Steve Parker:
Fix to realloc() call. Fix for execing login on solaris with no user name.

January 19, 1994

This is a list of some of the changes since the last tar release of telnet/telnetd. There are probably other changes that aren’t listed here, but this should hit a lot of the main ones.

General:
Changed #define for AUTHENTICATE to AUTHENTICATION
Changed #define for ENCRYPT to ENCRYPTION
Changed #define for DES_ENCRYPT to DES_ENCRYPTION

Added support for SPX authentication: -DSPX

Added support for Kerberos Version 5 authentication: -DKRB5

Added support for ANSI C function prototypes

Added support for the NEW-ENVIRON option (RFC-1572) including support for USERVAR.

Made support for the old Environment Option (RFC-1408) conditional on -DOLD_ENVIRON

Added #define ENV_HACK - support for RFC 1571

The encryption code is removed from the public distributions. Domestic 4.4 BSD distributions contain the encryption code.

ENV_HACK: Code to deal with systems that only implement the old ENVIRON option, and have reversed definitions of ENV_VAR and ENV_VAL. Also fixes ENV processing in client to handle things besides just the default set...

NO_BSD_SETJMP: UNICOS configuration for UNICOS 6.1/6.0/5.1/5.0 systems.

STREAMSPTY: Use /dev/ptmx to get a clean pty. This is for SVr4 derivatives (Like Solaris)

UTMPX: For systems that have /etc/utmpx. This is for SVr4 derivatives (Like Solaris)

Definitions for BSDI 1.0

Definitions for 4.3 Reno and 4.4 BSD.

Definitions for UNICOS 8.0 and UNICOS 7.C

Definitions for Solaris 2.0

Definitions for HP-UX 8.0

Latest Copyright notices from Berkeley.

FLOW-CONTROL: support for RFC-XXXX
Client Specific:

Fix the "send" command to not send garbage...

Fix status message for "skiprc"

Make sure to send NAWS after telnet has been suspended or an external command has been run, if the window size has changed.

sysV88 support.

Server Specific:

Support flowcontrol option in non-linemode servers.

-k Server supports Kludge Linemode, but will default to either single character mode or real Linemode support. The user will have to explicitly ask to switch into kludge linemode. ("stty extproc", or escape back to telnet and say "mode line").

-u Specify the length of the hostname field in the utmp file. Hostname longer than this length will be put into the utmp file in dotted decimal notation, rather than putting in a truncated hostname.

-U Registered hosts only. If a reverse hostname lookup fails, the connection will be refused.

-f/-F
  Allows forwarding of credentials for KRB5.

February 22, 1991:

Features:

This version of telnet/telnetd has support for both the AUTHENTICATION and ENCRYPTION options. The AUTHENTICATION option is fairly well defined, and an option number has been assigned to it. The ENCRYPTION option is still in a state of flux; an option number has been assigned to, but it is still subject to change. The code is provided in this release for experimental and testing purposes.

The telnet "send" command can now be used to send do/don't/will/wont commands, with any telnet option
name. The rules for when do/dont/will/wont are sent are still followed, so just because the user requests that one of these be sent doesn't mean that it will be sent...

The telnet "getstatus" command no longer requires that option printing be enabled to see the response to the "DO STATUS" command.

A -n flag has been added to telnetd to disable keepalives.

A new telnet command, "auth" has been added (if AUTHENTICATE is defined). It has four sub-commands, "status", "disable", "enable" and "help".

A new telnet command, "encrypt" has been added (if ENCRYPT is defined). It has many sub-commands: "enable", "type", "start", "stop", "input", "-input", "output", "-output", "status", and "help".

The LOGOUT option is now supported by both telnet and telnetd, a new command, "logout", was added to support this.

Several new toggle options were added:
"autoencrypt", "autodecrypt", "autologin", "authdebug", "encdebug", "skiprc", "verbose_encrypt"

An "rlogin" interface has been added. If the program is named "rlogin", or the "-r" flag is given, then an rlogin type of interface will be used.
~. Terminates the session
~<susp> Suspend the session
~^]
Escape to telnet command mode
~
Pass through the ~.

BUG: If you type the rlogin escape character in the middle of a line while in rlogin mode, you cannot erase it or any characters before it. Hopefully this can be fixed in a future release...

General changes:

A "libtelnet.a" has now been created. This library contains code that is common to both telnet and telnetd. This is also where library routines that are needed, but are not in the standard C library,
The makefiles have been re-done. All of the site specific configuration information has now been put into a single "Config.generic" file, in the top level directory. Changing this one file will take care of all three subdirectories. Also, to add a new/local definition, a "Config.local" file may be created at the top level; if that file exists, the subdirectories will use that file instead of "Config.generic".

Many 1-2 line functions in commands.c have been removed, and just inserted in-line, or replaced with a macro.

**Bug Fixes:**

The non-termio code in both telnet and telnetd was setting/clearing CTECH in the sg_flags word. This was incorrect, and has been changed to set/clear the LCTLECH bit in the local mode word.

The SRCRT #define has been removed. If IP_OPTIONS and IPPROTO_IP are defined on the system, then the source route code is automatically enabled.

The NO_GETTYTAB #define has been removed; there is a compatibility routine that can be built into libtelnet to achieve the same results.

The server, telnetd, has been switched to use getopt() for parsing the argument list.

The code for getting the input/output speeds via cfgetispeed()/cfgetospeed() was still not quite right in telnet. Posix says if the ispeed is 0, then it is really equal to the ospeed.

The suboption processing code in telnet now has explicit checks to make sure that we received the entire suboption (telnetd was already doing this).

The telnet code for processing the terminal type could cause a core dump if an existing connection was closed, and a new connection opened without exiting telnet.

Telnetd was doing a TCSADRAIN when setting the new
terminal settings; This is not good, because it means that the tcsetattr() will hang waiting for output to drain, and telnetd is the only one that will drain the output... The fix is to use TCSANOW which does not wait.

Telnetd was improperly setting/clearing the ISTRIP flag in the c_iflag field, it should be using the c_iflag field.

When the child process of telnetd was opening the slave side of the pty, it was re-setting the EXTPROC bit too early, and some of the other initialization code was wiping it out. This would cause telnetd to go out of linemode and into single character mode.

One instance of leaving linemode in telnetd forgot to send a WILL ECHO to the client, the net result would be that the user would see double character echo.

If the MODE was being changed several times very quickly, telnetd could get out of sync with the state changes and the returning acks; and wind up being left in the wrong state.

September 14, 1990:

Switch the client to use getopt() for parsing the argument list. The 4.3Reno getopt.c is included for systems that don't have getopt().

Use the posix _POSIX_VDISABLE value for what value to use when disabling special characters. If this is undefined, it defaults to 0x3ff.

For non-termio systems, TIOCSETP was being used to change the state of the terminal. This causes the input queue to be flushed, which we don't want. This is now changed to TIOCSETN.

Take out the "#ifdef notdef" around the code in the server that generates a "sync" when the pty output is flushed. The potential problem is that some older telnet clients may go into an infinite loop when they receive a "sync", if so, the server can be compiled with "NO_URGENT" defined.
Fix the client where it was setting/clearing the OPOST bit in the c_iflag field, not the c_oflag field.

Fix the client where it was setting/clearing the ISTRIP bit in the c_iflag field, not the c_iflag field. (On 4.3Reno, this is the ECHOPRT bit in the c_lflag field.) The client also had its interpretation of WILL BINARY and DO BINARY reversed.

Fix a bug in client that would cause a core dump when attempting to remove the last environment variable.

In the client, there were a few places were switch() was being passed a character, and if it was a negative value, it could get sign extended, and not match the 8 bit case statements. The fix is to and the switch value with 0xff.

Add a couple more printoption() calls in the client, I don't think there are any more places were a telnet command can be received and not printed out when "options" is on.

A new flag has been added to the client, "-a". Currently, this just causes the USER name to be sent across, in the future this may be used to signify that automatic authentication is requested.

The USER variable is now only sent by the client if the "-a" or "-l user" options are explicitly used, or if the user explicitly asks for the "USER" environment variable to be exported. In the server, if it receives the "USER" environment variable, it won't print out the banner message, so that only "Password:" will be printed. This makes the symantics more like rlogin, and should be more familiar to the user. (People are not used to getting a banner message, and then getting just a "Password:" prompt.)

Re-vamp the code for starting up the child login process. The code was getting ugly, and it was hard to tell what was really going on. What we do now is after the fork(), in the child:
1) make sure we have no controlling tty
2) open and initialize the tty
3) do a setsid(setpgrp())
4) makes the tty our controlling tty.
On some systems, #2 makes the tty our controlling
tty, and #4 is a no-op. The parent process does
a gets rid of any controlling tty after the child
is fork(ed).

Use the strdup() library routine in telnet, instead
of the local savestr() routine. If you don't have
strdup(), you need to define NO_STRDUP.

Add support for ^T (SIGINFO/VSTATUS), found in the
4.3Reno distribution. This maps to the AYT character.
You need a 4-line bugfix in the kernel to get this
to work properly:

```c
> *** tty_pty.c.ORG Tue Sep 11 09:41:53 1990
> --- tty_pty.c Tue Sep 11 17:48:03 1990
> *****************
> *** 609,613 ****
> if ((tp->t_lflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data);
> return(0);
> }
> --- 609,616 ----
> if ((tp->t_lflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data, 1);
> ! if (((unsigned int *)data == SIGINFO) &&
> ! ((tp->t_lflag&NOKERNINFO) == 0))
> ! ttyinfo(tp);
> return(0);
> }
```

The client is now smarter when setting the telnet escape
caracter; it only sets it to one of VEOL and VEOL2 if
one of them is undefined, and the other one is not already
defined to the telnet escape character.

Handle TERMIOS systems that have seperate input and output
line speed settings imbedded in the flags.

Many other minor bug fixes.

June 20, 1990:
Re-organize makefiles and source tree. The telnet/Source
directory is now gone, and all the source that was in
telnet/Source is now just in the telnet directory.

Seperate makefile for each system are now gone. There
are two makefiles, Makefile and Makefile.generic. The "Makefile" has the definitions for the various system, and "Makefile.generic" does all the work. There is a variable called "WHAT" that is used to specify what to make. For example, in the telnet directory, you might say:
make 4.4bsd WHAT=clean
to clean out the directory.

Add support for the ENVIRON and XDISPLOC options. In order for the server to work, login has to have the "-p" option to preserve environment variables.

Add the SOFT_TAB and LIT_ECHO modes in the LINEMODE support.

Add the "-l user" option to command line and open command (This is passed through the ENVIRON option).

Add the "-e" command line option, for setting the escape character.

Add the "-D", diagnostic, option to the server. This allows the server to print out debug information, which is very useful when trying to debug a telnet that doesn't have any debugging ability.

Turn off the literal next character when not in LINEMODE.

Don't recognize ^Y locally, just pass it through.

Make minor modifications for Sun4.0 and Sun4.1

Add support for both FORW1 and FORW2 characters. The telnet escape character is set to whichever of the two is not being used. If both are in use, the escape character is not set, so when in linemode the user will have to follow the escape character with a <CR> or <EOF) to get it passed through.

Commands can now be put in single and double quotes, and a backslash is now an escape character. This is needed for allowing arbitrary strings to be assigned to environment variables.

Switch telnetd to use macros like telnet for keeping track of the state of all the options.

Fix telnetd's processing of options so that we always do
the right processing of the LINEMODE option, regardless of who initiates the request to turn it on. Also, make sure that if the other side went "WILL ECHO" in response to our "DO ECHO", that we send a "DONT ECHO" to get the option turned back off!

Fix the TERMIOs setting of the terminal speed to handle both BSD's separate fields, and the SYSV method of CBAUD bits.

Change how we deal with the other side refusing to enable an option. The sequence used to be: send DO option; receive WONT option; send DONT option. Now, the sequence is: send DO option; receive WONT option. Both should be valid according to the spec, but there has been at least one client implementation of telnet identified that can get really confused by this. (The exact sequence, from a trace on the server side, is (numbers are number of responses that we expect to get after that line)...):

send WILL ECHO1 (initial request)
send WONT ECHO2 (server is changing state)
recv DO ECHO1 (first reply, ok. expect DONT ECHO next)
send WILL ECHO2 (server changes state again)
recv DONT ECHO1 (second reply, ok. expect DO ECHO next)
recv DONT ECHO00 (third reply, wrong answer. got DONT!!!)
***send WONT ECHO (send WONT to acknowledge the DONT)
send WILL ECHO1 (ask again to enable option)
recv DO ECHO0
recv DONT ECHO0
send WONT ECHO1
recv DONT ECHO0
recv DO ECHO1
send WILL ECHO0
(and the last 5 lines loop forever)

The line with the "***" is last of the WILL/DONT/WONT sequence.
The change to the server to not generate that makes this same example become:

send will ECHO1
send wont ECHO2
recv do ECHO1
send will ECHO2
recv dont ECHO1
recv dont ECHO0
recv do ECHO1
send will ECHO0
There is other option negotiation going on, and not sending the third part changes some of the timings, but this specific example no longer gets stuck in a loop. The "telnet.state" file has been modified to reflect this change to the algorithm.

A bunch of miscellaneous bug fixes and changes to make lint happier.

This version of telnet also has some KERBEROS stuff in it. This has not been tested, it uses an un-authorized telnet option number, and uses an out-of-date version of the (still being defined) AUTHENTICATION option. There is no support for this code, do not enable it.

March 1, 1990:
CHANGES/BUGFIXES SINCE LAST RELEASE:
Some support for IP TOS has been added. Requires that the kernel support the IP_TOS socket option (currently this is only in UNICOS 6.0).

Both telnet and telnetd now use the cc_t typedef. typedefs are included for systems that don't have it (in termios.h).

SLC_SUSP was not supported properly before. It is now.

IAC EOF was not translated properly in telnetd for SYSV_TERMIO when not in linemode. It now saves a copy of the VEOF character, so that when ICANON is turned off and we can't trust it anymore (because it is now the VMIN character) we use the saved value.

There were two missing "break" commands in the linemode processing code in telnetd.

Telnetd wasn't setting the kernel window size information properly. It was using the rows for both rows and columns...

Questions/comments go to
  David Borman
  Cray Research, Inc.
  655F Lone Oak Drive
  Eagan, MN 55123
  dab@cray.com.

README: You are reading it.
This file contains all the OS specific definitions. It has pre-definitions for many common system types, and is in standard makefile format. See the comments at the top of the file for more information.

Config.local:
This is not part of the distribution, but if this file exists, it is used instead of "Config.generic". This allows site specific configuration without having to modify the distributed "Config.generic" file.

kern.diff:
This file contains the diffs for the changes needed for the kernel to support LINEMODE is the server. These changes are for a 4.3BSD system. You may need to make some changes for your particular system.

There is a new bit in the terminal state word, TS_EXTPROC. When this bit is set, several aspects of the terminal driver are disabled. Input line editing, character echo, and mapping of signals are all disabled. This allows the telnetd to turn of these functions when in linemode, but still keep track of what state the user wants the terminal to be in.

New ioctl(s):

 TIOCEXT Turn on/off the TS_EXTPROC bit
 TIOCGSTATE Get t_state of tty to look at TS_EXTPROC bit
 TIOCSIG Generate a signal to processes in the current process group of the pty.

There is a new mode for packet driver, the TIOCPKT_IOCTL bit. When packet mode is turned on in the pty, and the TS_EXTPROC bit is set, then whenever the state of the pty is changed, the next read on the master side of the pty will have the TIOCPKT_IOCTL bit set, and the data will contain the following:

 struct xx {
 struct sgttyb a;
 struct tchars b;
 struct ltchars c;
 int t_state;
 int t_flags;
 }
 This allows the process on the server side of the pty to know when the state of the terminal has changed, and what the new state is.

However, if you define USE_TERMIO or SYSV_TERMIO, the code will
expect that the structure returned in the TIOCPKT_IOCTL is the termio/termios structure.

stty.diff:
This file contains the changes needed for the stty(1) program to report on the current status of the TS_EXTPROC bit. It also allows the user to turn on/off the TS_EXTPROC bit. This is useful because it allows the user to say "stty -extproc", and the LINEMODE option will be automatically disabled, and saying "stty extproc" will re-enable the LINEMODE option.

telnet.state:
Both the client and server have code in them to deal with option negotiation loops. The algorithm that is used is described in this file.

telnet:
This directory contains the client code. No kernel changes are needed to use this code.

telnetd:
This directory contains the server code. If LINEMODE or KLUDGELINEMODE are defined, then the kernel modifications listed above are needed.

libtelnet:
This directory contains code that is common to both the client and the server.

arpa:
This directory has a new <arpa/telnet.h>

libtelnet/Makefile.4.4:
telnet/Makefile.4.4:
telnetd/Makefile.4.4:
These are the makefiles that can be used on a 4.3Reno system when this software is installed in /usr/src/lib/libtelnet, /usr/src/libexec/telnetd, and /usr/src/usr.bin/telnet.

The following TELNET options are supported:

LINEMODE:
The LINEMODE option is supported as per RFC1116. The FORWARDMASK option is not currently supported.

BINARY: The client has the ability to turn on/off the BINARY option in each direction. Turning on BINARY from server to client causes the LITOUT bit to get set in
the terminal driver on both ends, turning on BINARY from the client to the server causes the PASS8 bit to get set in the terminal driver on both ends.

TERMINAL-TYPE:
This is supported as per RFC1091. On the server side, when a terminal type is received, termcap/terminfo is consulted to determine if it is a known terminal type. It keeps requesting terminal types until it gets one that it recognizes, or hits the end of the list. The server side looks up the entry in the termcap/terminfo data base, and generates a list of names which it then passes one at a time to each request for a terminal type, duplicating the last entry in the list before cycling back to the beginning.

NAWS: The Negotiate about Window Size, as per RFC 1073.

TERMINAL-SPEED:
Implemented as per RFC 1079

TOGGLE-FLOW-CONTROL:
Implemented as per RFC 1080

TIMING-MARK:
As per RFC 860

SGA: As per RFC 858

ECHO: As per RFC 857

LOGOUT: As per RFC 727

STATUS:
The server will send its current status upon request. It does not ask for the clients status. The client will request the servers current status from the "send getstatus" command.

ENVIRON:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued, but should be in the near future...

X-DISPLAY-LOCATION:
This functionality can be done through the ENVIRON option, it is added here for completeness.
AUTHENTICATION:
This option is currently being defined by the IETF
Telnet Working Group, and an RFC has not yet been
issued. The basic framework is pretty much decided,
but the definitions for the specific authentication
schemes is still in a state of flux.

ENCRYPTION:
This option is currently being defined by the IETF
Telnet Working Group, and an RFC has not yet been
issued. The draft RFC is still in a state of flux,
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This package was debianized by Brian May <bam@snoopy.apana.org.au> on

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-- Tom St Denis

KERBEROS and DCE INTEROPERABILITY ROUTINES

WHAT'S NEW
When k5dcecon was examining the ticket caches looking to update one with a newer TGT, it might update the wrong one for the correct user. This problem was reported by PNNL, and is now fixed.

Any Kerberized application can now use a forwarded TGT to establish a DCE context, or can use a previously established DCE context. This is both a functional improvement and a performance improvement.

BACKGROUND

The MIT Kerberos 5 Release 1.x and DCE 1.1 can interoperate in a number of ways. This is possible because:

- DCE used Kerberos 5 internally. Based on the MIT code as of beta 4 or so, with additional changes.

- The DCE security server can act as a K5 KDC, as defined in RFC 1510 and responds on port 88.

- On the clients, DCE and Kerberos use the same format for the ticket cache, and then can share it. The KRBCCCNAME environment variable points at the cache.

- On the clients, DCE and Kerberos use the same format for the srvtab file. DCE refers to it as /krb5/v5srvtab and Kerberos as /etc/krb5.keytab. They can be symlinked.

- MIT has added many options to the krb5.conf configuration file which allows newer features of Release 1.0 to be turned off to match the earlier version of Kerberos upon which DCE is based.

- DCE will accept a externally obtained Kerberos TGT in place of a password when establishing a DCE context.

There are some areas where they differ, including the following:

- Administration of the database and the keytab files is done by the DCE routines, rather than the Kerberos kadmin.

- User password changes must be done using the DCE commands. Kpasswd does not work. (But there are mods to Kerberos to use the v5passwd with DCE.

- DCE goes beyond authentication only, and provides authorization via the PAC, and the dce-ptgt tickets stored in the cache. Thus a Kerberos KDC can not act as a DCE security server.
A DCE cell and Kerberos realm can cross-realm authenticate, but there can be no intermediate realms. (There are other problems in this area as well. But directly connected realms/cells do work.)

You can't link a module with the DCE library and the Kerberos library. They have conflicting routines, static data and structures.

One of the main features of DCE is the Distributed File System DFS. Access to DFS requires authentication and authorization, and when one uses a Kerberized network utility such as telnet, a forwarded Kerberos ticket can be used to establish the DCE context to allow access to DFS.

NEW TO THIS RELEASE

This release introduces sharing of a DCE context, and PAG, and allows any Kerberized application to establish or share the context. This is made possible by using an undocumented feature of DCE which is on at least the Transarc and IBM releases of DCE 1.1.

I am in the process of trying to get this contributed to the general DCE 1.2.2 release as a patch, so it could be included in other vendors products. HP has expressed interest in doing this, as well as the OpenGroup if the modification is contributed. You can help by requesting Transarc and/or IBM to submit this modification to the OpenGroup and ask your vendor to adopt this modification.

The feature is a modification to the setpag() system call which will allow an authorized process to set the PAG to a specific value, and thus allow unrelated processes to share the same PAG.

This then allows the Kerberized daemons such as kshd, to exec a DCE module which established the DCE context. Kshd then sets the KRB5CCNAME environment variable and then issues the setpag() to use this context. This solves the linking problem. This is done via the k5dfspag.c routine.

The k5dfspag.c code is compiled with the lib/krb5/os routines and included in the libkrb5. A daemon calls krb5_dfs_pag after the krb5_kuserok has determined that the Kerberos principal and local userid pair are acceptable. This should be done early so as to give the daemon access to the home directory which may be located on DFS. If the .k5login file is used by krb5_kuserok it will need to be accessed by the daemon and will need special ACL handling.

The krb5_dfs_pag routine will exec the k5dcecon module to do all the real work. Upon return, if a PAG is obtained, krb5_dfs_pag with set
the PAG for the current process to the returned PAG value. It will also set the KRBC5CCNAME environment as well. Under DCE the PAG value is the nnnnnnn part of the name of the cache:
FILE:/opt/dcelocal/var/security/creds/dcecred_nnnnnnnn.

The k5dcecon routine will attempt to use TGT which may have been forwarded, to convert it to a DCE context. If there is no TGT, an attempt will be made to join an existing PAG for the local userid, and Kerberos principal. If there are existing PAGs, and a forwarded TGT, k5dcecon will check the lifetime of the forwarded TGT, and if it is less than the lifetime of the PAG, it will just join the PAG. If it is greater, it will refresh the PAG using the forwarded TGT.
This approach has the advantage of not requiring many new tickets from having to be obtained, and allows one to refresh a DCE context, or use an already established context.

If the system also has AFS, the AFS krb5_afs_pag should be called after the krb5_dfs_pag, since cache pointed at via the KRBC5CCNAME may have changed, such as if a DFS PAG has been joined. The AFS code does not have the capability to join an existing AFS PAG, but can use the same cache which might already had a afsx/<afs.cell.name>@<k5.realm.name> service ticket.

WHAT'S IN THIS RELEASE

The k5prelogin, k5dcelogin, k5afslogin (with ak5log) were designed to be slipped in between telnetd or klogind and login.krb5. They would use a forwarded Kerberos ticket to establish a DCE context. They are the older programs which are included here. They work on all DCE platforms, and don't take advantage of the undocumented setpag feature. (A version of k5dcelogin is being included with DCE 1.2.2)

K5dcecon is the new program which can be used to create, update or join a DCE context. k5dcecon returns KRBC5CCNAME string which contains the PAG.

k5dfspag.c is to be built in the MIT Kerberos 5 release 1.0 patchlevel 1 and added to the libkrb5. It will exec k5dcecon and upon return set the KRBC5CCNAME and PAG. Mods to Kerberized klogind, rshd, telnetd, ftpd are available to use the k5dfspag.

Testpag.c is a test programs to see if the PAG can be set.

The cpwkey.c routine can be used to change a key in the DCE registry, by adding the key directly, or by setting the salt/pepper and password or by providing the key and the pepper. This could be useful when coping keys from a K4 or AFS database to DCE. It can also be used when
setting a DCE to K5 cross-cell key. This program is a test program
For mass inserts, it should be rewritten to read from stdin.

K5dcelogin can also be called directly, much like dce_login.
I use the following commands in effect do the same thing as dce_login
and get a forwardable ticket, DCE context and an AFS token:

```
#!/bin/csh
# simulate a dce_login using krb5 kinit and k5dcelogin
#
setenv KRB5CCNAME FILE:/tmp/krb5cc_p$$
/krb5/bin/kinit -f
exec /krb5/sbin/k5dcelogin /krb5/sbin/k5afslogin /bin/csh
#exec /krb5/sbin/k5dcelogin /bin/csh
```

This could be useful in a mixed cell where "AS_REQ" messages are
handled by a K5 KDC, but DCE RPCs are handled by the DCE security
server.

TESTING THE SETPAG

The krb5_dfs_pag routine relies on an undocumented feature which is
in the AIX and Transarc Solaris ports of DCE and has been recently
added to the SGI version. To test if this feature is present
on some other DFS implementation use the testpag routine.

The testpag routine attempts to set a PAG value to one you supply. It
uses the afs_syscall with the afs_setpag, and passes the supplied
PAG value as the next parameter. On an unmodified system, this
will be ignored, and a new will be set. You should also check that
if run as a user, you cannot join a PAG owned by another user.
When run as root, any PAG should be usable.

On a machine with DFS running, do a dce_login to get a DCE context and
PAG. ECHO the KRB5CCNAME and look at the nnnnnnnn at the end. It
should look like an 8 char hex value, which may be 41ffxxxx on some
systems.

Su to root and unsetenv KRB5CCNAME. Do a testpag -n nnnnnnnnn where
nnnnnnnnn is the PAG obtained for the above name.

It should look like this example on an AIX 4.1.4 system:

```
pembroke# ./testpag -n 63dc9997
     calling k5dcepag newpag=63dc9997
  PAG returned = 63dc9997
```

You will be running under a new shell with the PAG and KRB5CCNAME set.
If the PAG returned is the same as the newpag, then it worked. You can further verify this by doing a DCE klist, cd to DFS and a DCE klist again. The klist should show some tickets for DFS servers.

If the PAG returned is not the same, and repeated attempts show a returned PAG decremented by 1 from the previous returned PAG, then this system does not have the modification. For example:

```
# ./testpag -n 41fffff9
  calling k5dcepag newpag=41fffff9
  PAG returned = 41fffff8
# ./testpag -n 41fffff9
  calling k5dcepag newpag=41fffff9
  PAG returned = 41fffff7
```

In this case the syscall is ignoring the newpag parameter.

Running it with -n 0 should get the next PAG value with or without this modification.

If the DFS kernel extensions are not installed, you would get something like this:

```
caliban.ctd.anl.gov% ./testpag -n 012345678
  calling k5dcepag newpag=012345678
  Setpag failed with a system error
  PAG returned = ffffffff
  Not a good pag value
```

If you DFS implementation does not have this modification, you could attempt to install it yourself. But this requires source and requires modifications to the kernel extensions. At the end of this note is an untested sample using the DCE 1.2.2 source code. You can also contact your system vendor and ask for this modification.

UNICOS has a similar function setppag(newpag) which can be used to set the PAG of the parent. Contact me if you are interested.

HOW TO INSTALL

Examine the k5dfspag.c file to make sure the DFS syscalls are correct for your platform. See the /opt/dcelocal/share/include/dcedfs/syscall.h on Solaris for example.

You should build the testpag routine and make sure it works before adding all the other mods. If it fails you can still use the klogind and telnetd with the k5prelogin and k5dcelogin code.
If you intend to install with a prefix other than /krb5, change:
DPAGAIX and K5DCECON in k5dfspag.c; the three references in
k5prelogin.c; and the DESTDIR in the Makefile.

Get k5101.cdiff.xxxxxx.tar file and install the mods for ANL_DFS_PAG
and ANL_DCE to the MIT Kerberos 5 source. These mods turn on some DCE
related changes and the calls to krb5_dfs_pag.

Symlink or copy the k5dfspag.c to the src/lib/krb5/os directory.

Add the -DANL_DFS_PAG and -DANL_DCE flags to the configuration.

Configure and Build the Kerberos v5.

Modify the k5dce Makefile for your system.

Build the k5dcecon and related programs.

Install both the MIT Kerberos v5 and the k5dcecon and dpagaix if AIX.

The makefile can also build k5dcelogin and k5prelogin. The install
can install k5dcelogin, k5prelogin and update the links for login.krb5
-> k5prelogin and moving login.krb5 to login.k5. If you will be using
the k5dcecon/k5dfspag with the Kerberos mods, you don't need
k5prelogin, or the links changed, and may not need k5dcelogin.

Note that Transarc has obfuscated the entries to the lib, and
the 1.0.3a is different from the 1.1. You may need to build two
versions of the k5dcelogin and/or k5dcecon one for each.

AIX ONLY

The dpagaix routine is needed for AIX because of the way they do the
syscalls.

The following fix.aix.libdce.mk is not needed if dce 2.1.0.21
has been installed. This PTF exposed the needed entrypoints.

The fix.aix.libdce.mk is a Makefile for AIX 4.x to add the required
external entry points to the libdce.a. These are needed by k5dcecon
and k5dcelogin. A bug report was submitted to IBM on this, and it was
rejected. But since DCE 1.2.2 will have a k5dcelogin, this should not
be needed with 1.2.2

Copy /usr/lib/libdce.a to /usr/libibdce.a.orig before starting. Copy the
makefile to its own directory. It will create a new libdce.a which you
need to copy back to /usr/lib/libdce.a You will need to reboot the
machine. See the /usr/lpp/dce/examples/inst/README.AIX for a similar
procedure. IBM was not responsive in a request to have these added.

UNTESTED KERNEL EXTENSION FOR SETPAG

***************
*** 293,298 ****
--- 293,302 ----
    int code;

   osi_MakePreemptionRight();
+ /* allow sharing of a PAG by non child processes DEE- 6/6/97 */
+ if (unused && osi_GetUID(osi_getucred()) == 0) {
+    newpag = unused;
+ } else {
osi_mutex_enter(&osi_pagLock);
    now = osi_Time();
    soonest = osi_firstPagTime +
***************
*** 309,314 ****
--- 313,319 ----
}
osi_mutex_exit(&osi_pagLock);
    newpag = osi_genpag();
+ }
osi_pcred_lock(p);
    credp = crcopy(osi_getucred());
    code = osi_SetPagInCred(credp, newpag);

Created 07/08/96
Modified 09/30/96
Modified 11/19/96
Modified 12/19/96
Modified 06/20/97
Modified 07/28/97
Modified 02/18/98

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This is a set of patches and files to get a DFS ticket from a k5 ticket. This code comes from Doug Engert, Argonne Nat. Lab (See dce/README.original for more info)

The files in dce are;
- testpag: for testing if this is at all possible.
- k5dfspag: included in libkrb5
- k5dcecon: Creates (or searches for) the actual DFSPAG ticketfile.
- dpagaix: An AIX syscall stub.
- README.original: Original README file from Doug Engert

Certain applications (rshd/telnetd) have been patched to call the functions in k5dfspag when the situation is right. They are ifdef with DCE. The patches are also originally from Doug but they where against MIT krb5 code and have been merged into heimdal by me. I will try to fix ftspd soon...

There is also an ifdef for DCE && AIX that can be used to make AIX use DCE for getting group/passwd entries. This is needed if one is running with a bare bones passwd/group file and AUTHSTATE set to DCE (This will be more or less clear to people doing this...) I have forced this on for now.

k5dfspag.c is in lib/krb5
k5dfspag.c is dependent on DCE only.
It is also POSIX systems only. There are defines for the location of k5dcecon and dpagaix that needs a correct configure setting.

k5dcecon needs no special things for the compile except whatever is needed on the target system to compile dce programs.
(On aix the dce compile flags are: -D_THREAD_SAFE -D_AIX32_THREADS=1 -D_AIX41 -D_AES_SOURCE or one can use xlc_r4 if it is version 3.6.4 or later)

k5dcecon wants the following libs (on aix 4.3):
-Idce (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dfspag.c).
dpagaix needs dfspag.exp and is linked with
ld -edpagaix -o dpagaix dpagaix.o dfspag.exp

Hope to get this into heimdal soon :-) although I know that you will have to change some things to get it cleanly into configure. Since I don't know the structure of the code (heimdal), nor enough of configure, good enough I just won't try it myself.

One more thing, to get this to work one has to put fcache_version = x in krb5.conf where x = whatever the DCE implementation understands, (usually 1 or 2).
Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)
HPC2N
Ume" University
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this all cleanly (I hope) into heimdal.
This package was debianized by Brian May <bam@snoopy.apana.org.au> on Wed, 8 Dec 1999 11:54:13 +1100.

It was downloaded from http://www.pdc.kth.se/heimdal/

Upstream Authors: heimdal-bugs@pdc.kth.se
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RFCs in lib/wind:

rfc3454.txt has been stripped of content, only the tables remain.

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1.206 libhyperic-sigar-java 1.6.4+dfsg-2.1

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Upstream-Name: hyperic-sigar
Source: http://www.hyperic.com/products/sigar

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1.207 libicu55 55.1 :7ubuntu0.4

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```makefile
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Compilation rules
```
%.S(STATIC_O): $(srcdir)/%.c
$< $(COMPILE.c $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S(STATIC_O): $(srcdir)/%.cpp
$< $(COMPILE.cc $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$< $(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed "s/(.*/\1.o $@ : /g" > $@; \n[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$< $(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed "s/(.*/\1.o $@ : /g" > $@; \n[ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.S(SO).$(SO_TARGET_VERSION_MAJOR): %.S(SO).$(SO_TARGET_VERSION)
$< $(RM) $@ && ln -s ${<F} $@
%.S(SO): %.S(SO).$(SO_TARGET_VERSION_MAJOR)
$< $(RM) $@ && ln -s ${<F}.S(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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>
The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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*m4/ax_func_which_gethostbyname_r.m4

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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;

public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
}; __attribute__ ((java_interface));

#endif __java_security_acl_Permission__

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```java
exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}
```
public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © \" + tags[i].text() + \"</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypesInlineTagregister(Ljava/util/Map;)V
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/* Permission.java -- The superclass for all permission objects


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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p>Permission's must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

/**
* Compatible with JDK 1.1+.
*/

private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */

private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */

public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code>
 * with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */

public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */

public abstract boolean implies(Permission perm);
/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>implies</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>; it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
/*
 * toString();
 */

#!/usr/bin/python
#
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# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltSugar.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
return True
if os.path.exists (base + '.in'):
    return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright
             |\[Cc\]opyright\s+\%(Cc)\])
            |\[Cc\]opyright\s+%s
            |\[Cc\]opyright\s+&copy;
            |\[Cc\]opyright\s+@copyright{ }'
            |copyright = u"'
            |@set\s+copyright\[w-]+')

        # 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?:.+' + ranges + '\.\)?
  '@value\{[^{}]*\}s\)*')

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s+ name + (?::\s? + name + )*\))?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
  re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl ')

self.holders = [ '@copying': '@copying' ]

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
sel.flu_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find (' ')
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
  self.holders[holder] = None

class BadYear():
  def __init__ (self, year):
    self.year = year

  def __str__ (self):
    return 'unrecognised year: ' + self.year
def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
holder = match.group (4)
return (holder
    and (holder not in self.holder_prefixes
         or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                             'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

            holder = match.group (4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author (dir, filename):
                assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                            'unrecognised copyright: %s'
                                            % line.strip())
                        lines.append (line)
                        line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open (tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write (line)
                        if self.use_quilt:
                            subprocess.call (["quilt", 'add', pathname])
                    os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):

# Don't recurse through directories that should be skipped.
for i in xrange(len(subdirs) - 1, -1, -1):
    if filter.skip_dir(dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file(dir, filename):
        sys.stdout.write('Skipping %s\n' % os.path.join(dir, filename))
    else:
        self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', """quilt add" files before changing them",
                        self.o_quilt)
        self.add_option('--this-year', "Add the current year to every notice",
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter = GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option = None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...

            Options:
            %s
' % (sys.argv[0], format)
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))

        sys.stdout.write('
Directories:

            %s
' % format)
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
if i % 3 == 0 or i == len(self.dirs):
    sys.stdout.write(dir + 'n')
else:
    sys.stdout.write(format % dir)
sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit(0 if self.errors.ok() else 1)

#-------------------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])

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def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])
# Imported from upstream
'classpath',
'libltdl',
]
)

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',
        ])

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
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For more information see the README file in the examples directory.

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The upstream for fdlibm is libgcj (http://gcc.gnu.org/java/), they sync again with the 'real' upstream (http://www.netlib.org/fdlibm/readme).

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Directory external/w3c_dom

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1998-05-11

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2000-05-05

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*m4/ax_func_which_gethostbyname_r.m4

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9932
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SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{

class AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *); static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency. The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

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

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

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

@c man end
\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\"
\" Standard preamble:
\" ========================================================================
.de Sh \" Subsection heading
.br
.if t .Sp
.ne 5
.PP
\$B\$1\$R
.PP
.. .de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. .de Vb \" Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
\" Set up some character translations and predefined strings. \"-- will
\" give an unbreakable dash, \"PI will give pi, \"L\" will give a left
\" double quote, and \"R\" will give a right double quote. \"C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \"C\" and \"C\" expand to ` in nroff,
\" nothing in troff, for use with C<<.
.tr \(*W-\)
.ds C+ C\v-.1v'h'1p\v's-2+p'h'-1p'+\v's0\v'.1v'h'-1p'
.ie n \}
  . ds -- \(*W-
  . ds PI pi

9880
if ((\n(.H=4u)&(1m=24u) .ds -- \'|\*W\h\'-12u\'|\*W\h\'-12u\'-\' \" diablo 10 pitch
if ((\n(.H=4u)&(1m=20u) .ds -- \'|\*W\h\'-12u\'|\*W\h\'-8u\'-\' \" diablo 12 pitch
    ds L'' ''
    ds R'' ''
    ds C'' ''
    ds C'' ''
'br\}
    ds -- \}(em) |
    ds PI \*p
    ds L'' ''
    ds R'' ''
'br\}
λ''
λ'' Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.ie \n(.g .ds Aq \aq
.ie \n(.g .ds Aq '
λ''
λ'' If the F register is turned on, we'll generate index entries on stderr for
λ'' titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
λ'' entries marked with X<> in POD. Of course, you'll have to process the
λ'' output yourself in some meaningful fashion.
.ie \nF \{
   de IX
   tm Index:\$1\t\n%	"\$2"
.. nr % 0
   rr F
λ]
    de IX
   .. λ]
λ''
λ'' Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
λ'' Fear. Run. Save yourself. No user-serviceable parts.
   λ'' fudge factors for nroff and troff
   .if n \{
      .ds #H 0
      .ds #V .8m
      .ds #F .3m
      .ds #f \f1
      .ds #f \fP
λ]
   .if t \{
      .ds #H ((1u-(\n(.fu%2u))*13m)
      .ds #V .6m
      .ds #F 0

\"I\"n
.IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
\"I\"n
For nroff, turn off justification. Always turn off hyphenation; it makes
\"I\"n way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh \"\-1GNU\-s0 General Public License\"
.IX Subsection "GNU General Public License"
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```
/* Definitions for BSD assembler syntax for Intel 386 (actually AT&T syntax for insns and operands, adapted to BSD conventions for symbol names and debugging.)
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```

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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `. 's to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \

/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (.comm "", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (.lcomm "", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)
  if ((LOG)!=0) fprintf ((FILE), 	.align %d
", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), 
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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@appendixsubsec Preamble

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

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

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

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

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

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

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

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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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  that the user who changes the contents of definitions files in the
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@appendixsubsec How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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#!/usr/bin/python
#
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#
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This script adjusts the copyright notices at the top of source files
so that they have the form:

Copyright XXXX-YYYY Free Software Foundation, Inc.

It doesn't change code that is known to be maintained elsewhere or
carries a non-FSF copyright.

The script also doesn't change testsuite files, except those in
libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
while most tests in other directories are just things that failed at some
point in the past.

Pass --this-year to the script if you want it to add the current year
to all applicable notices. Pass --quilt if you are using quilt and
want files to be added to the quilt before being changed.

By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

update-copyright.pl --this-year

is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

update-copyright.pl --this-year libjava

would run the script on just libjava/.

Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-l3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
        ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':  # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':  # Skip configure
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False
return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[-0-9,.;\s]\s+and\s+)*[-0-9,.;\s]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\w+\-')

        # Matches a full copyright notice:
        self.copyright_re = re.compile (\n            # 1: 'Copyright (C)', etc.
            '\(\[Cc\]opyright\)'\n            '\(\[Cc\]opyright\s+\{\[Cc\]\}\)'\n            '\(\[Cc\]opyright\s+\%\s\)'\n            '\(\[Cc\]opyright\s+\&copy\)'\n            '\(\[Cc\]opyright\s+\@copyright\)'\n            '\(\copyright\s+\)'\n            '\(\@set\s+\)'\n            '\(\@value\)'\n            '\(\[\w+\-\]+\)'\n
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\s+\)?*\s+\)'\n            '\(\s+\)?*\s+\)'\n            '\(\s+\)?*\s+\)'\n
            # 3: 'by ', if used
            '\(\s+\)?*\s+\)'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'( + name + '(?:\s? + name + ')*')?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.^[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.^[0-9][0-9]',
   re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+',
   re.IGNORECASE)

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be '(),' .
self.separator = ',

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
      canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return int (string)
    else:
        return BadYear (year)
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != "":
        self.errors.report (pathname,
                         'trailing characters in @set: '
                         + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn’t look like a proper continuation,
    # assume that what we’ve got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + '' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname,
                         'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)
    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)

with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (
                        ['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
if filter.skip_file (dir, filename):
    sys.stdout.write ('Skipping %s\n
    % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter ( )):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...\n
        ' % sys.argv[0])
        format = '%-15s %s

        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s

        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (dir + ' ')
        sys.exit (0)

    def o_quilt (self, option):
self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

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

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Not part of GCC
            'math-68881.h',
        })

        self.skip_dirs |= set ({
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        })

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

        self.fossilised_files |= set ({
            # Old news won't be updated.
            'ONEWS',
        })

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        )
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
            ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
            ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
            ])

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcpp',
                     'libdecnumber',
                     'libgcc',
                     'libgfortran',
                     'libgomp',
                     'libibitm',
                     'libmudflap',
                     'libobjc',
                     'libstdc++-v3',
                     ]

GCCCmdLine().main()

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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.
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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1. 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.)

2. 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.

3. 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.

4. 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
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@end enumerate

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Ty Coon, President of Vice
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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.

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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.

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

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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}

class java::security::Permission : public java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222315966744LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    /**
     * A simple Taglet which handles Copyright information.
     */
    public class CopyrightTaglet implements Taglet {

        private static final String NAME = "copyright";
        private static final String HEADER = "Copyright:";
public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            haveValidTag = true;
        }
        return toString(new Tag[] { tag });
    }
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            haveValidTag = true;
        }
        return toString(new Tag[] { tag });
    }
}
if (tags[i].text().length() > 0) {
    haveValidTag = true;
}
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

/*1-*/
7.:,.@C,G.K,O1,S"#QY$S*+%"WWXY-.
/01A
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
* This class is the abstract superclass of all classes that implement
* the concept of a permission. A permission consists of a permission name
* and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* The most important method in this class is `implies()`. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* `Permission`'s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name) {

this.name = name;
}
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);
/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);
/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + '')"</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');

    // Rest of the method implementation...
}
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!getActions().equals(''))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility.  (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"
/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
# define ASM_OUTPUT_ALIGN(FILE,LOG)\ if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ sprintf ((BUF), "*%s%d", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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

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

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

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

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* Josip Dzolonga -- coverage builder
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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
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lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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  # This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    
    # Check a comment for boilerplate violations. Return true if the comment is a license statement.

    return text_seen
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*-' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-* mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^ \]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')

    if not in_comment and '/\*+' in line:
        (line, sep, comment_part) = line.partition('/\*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

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
and the initial implementation of incremental propagation, including
the following new or changed files:

  include/iprop_hdr.h
  kadmin/server/ipropd_svc.c
  lib/kdb/iprop.x
  lib/kdb/kdb_convert.c
  lib/kdb/kdb_log.c
  lib/kdb/kdb_log.h
  lib/krb5/error_tables/kdb5_err.et
  slave/kpropd_rpc.c
  slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in:

- `lib/gssapi/generic/gssapi_err_generic.c`
- `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_get_name.c`
- `lib/gssapi/mechglue/g_init.c`
- `lib/gssapi/mechglue/g_init_cred.c`
- `lib/gssapi/mechglue/g_init_sec_context.c`
- `lib/gssapi/mechglue/g_logoff.c`
- `lib/gssapi/mechglue/g_rescind.c`
- `lib/gssapi/mechglue/g_sess_key.c`
- `lib/gssapi/mechglue/g_sess_name.c`
- `lib/gssapi/mechglue/g_set_cred.c`
- `lib/gssapi/mechglue/g_set_name.c`
- `lib/gssapi/mechglue/g_set_principal.c`
- `lib/gssapi/mechglue/g_set_sec_context.c`
- `lib/gssapi/mechglue/g_set_time.c`
- `lib/gssapi/mechglue/g_setsec.c`
- `lib/gssapi/mechglue/g_setsec_name.c`
- `lib/gssapi/mechglue/g_setsec_time.c`
- `lib/gssapi/mechglue/g_time.c`
- `lib/gssapi/mechglue/g_unbind.c`
- `lib/gssapi/mechglue/g_verify.c`
- `lib/gssapi/mechglue/g_verify_cred.c`
- `lib/gssapi/mechglue/g_verify_sec_context.c`
- `lib/gssapi/mechglue/g wizard.c`
- `lib/gssapi/mechglue/g_wizard.c`
- `lib/gssapi/mechglue/g_wizard_time.c`
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
include/inc/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.k
```

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10521
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

```
.. parsed-literal::

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
```

and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? */\*\*', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Check a comment for boilerplate violations. Return true if the comment
    # is a license statement.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
# Strip out whitespace and comments contained within a line.
if not in_comment:
    line = re.sub(r'\s*\*\s*/.*\*\s*/', '', line)
line = line.strip()

if not in_comment and '/' in line:
    (line, sep, comment_part) = line.partition('/\n')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
                           code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() !='':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]  
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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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
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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
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\texttt{src/lib/gssapi}\texttt{/}\texttt{generic}/\texttt{gssapi_err_generic}. Including the following files:
\begin{verbatim}
lib/gssapi/generic/gssapi_err_generic.c
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
\end{verbatim}
and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

   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_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
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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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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Release Notes:

popper-1.831beta is no longer beta30 July 91
Removed popper-1.7.tar.Z

popper-1.831beta.tar.Z03 April 91
Changed mkstemp to mktemp for Ultrix. Sigh.

popper-1.83beta.tar.Z02 April 91

This version makes certain that while running as root we do nothing at all destructive.

popper-1.82beta.tar.Z27 March 91

This version fixes problems on Encore MultiMax and some Sun releases which wouldn't allow a user to ftruncate() a file from an open file descriptor unless the user owns the file. Now the user...
owns the /usr/spool/mail/.userid.pop file. Thanks to Ben Levy of FTP Software and Henry Holtzman of Apple.

popper-1.81beta.tar.Z 20 March 91

This version of popper is supposed to fix three problems reported with various versions of popper (all called 1.7 or 1.7something).

1) Dropped network connections meant lost mail files. Some 1.7 versions also risked corrupting mail files.

2) Some versions of 1.7 created temporary drop files with world read and write permissions.

3) Some versions of 1.7 were not careful about opening the temporary drop file.

popper-1.7.tar.Z 09 September 90 (updated 20 March 91)

This version will exhibit the first problem listed above if it is compiled with -DDEBUG and run without the "-d" (debug) flag.

If it is compiled without -DDEBUG it will exhibit only the second and third bug listed above.

Cliff Frost poptest@nettlesome.berkeley.edu
UC Berkeley
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@heading Doug Rabson

GSS-API mechglue layer.

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@table @asis
@item GSS-API CFX, SPNEGO, naming extensions, API extensions.
@item KCM credential cache.
@item HDB LDAP backend.
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@heading Marko Kreen

Fortuna in libhcrypto

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vis.c in libbroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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Windows support

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lib/hcrypto/test_dh.c

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RFCs in lib/wind:

rfc3454.txt has been stripped of content, only the tables remain.

rfc3490.txt, rfc3491.txt, rfc4013.txt, rfc4518.txt have been removed.

rfc3492.txt contains the following license:

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Heimdal is a Kerberos 5 implementation.

For information how to install see <http://www.h5l.org/compile.html>.
There are briefer man pages for most of the commands.

Bug reports and bugs are appreciated, see more under Bug reports in the manual on how we prefer them: <heimdal-bugs@h5l.org>.

For more information see the web-page at <http://www.h5l.org/> or the mailing lists:

heimdal-announce@sics.selow-volume announcement
heimdal-discuss@sics.sehigh-volume discussion

send a mail to heimdal-announce-request@sics.se and heimdal-discuss-request@sics.se respectively to subscribe.
This kerberized popper was based on popper-1.831beta which was later announced as "offical" and not beta.

This program is able to talk both the pop3 and the kpop3 protocol.

Please note that the server principal is pop.hostname and not rcmd.hostname. I.e an additional entry is needed in your mailhub's /etc/srvtab. Use ksrvutil to add the extra prinicpal.

The server is usually started from inetd and there is already an entry for that in inetd.conf.changes.
This is a set of patches and files to get a DFS ticket from a k5 ticket.
This code comes from Doug Engert, Argonne Nat. Lab (See dce/README.original for more info)

The files in dce are;
testpag: for testing if this is at all possible.
k5dfspag: included in libkrb5
k5dcecon: Creates (or searches for) the actual DFSPAG ticketfile.
dpagaix: An AIX syscall stub.
README.original: Original README file from Doug Engert

Certain applications (rshd/telnetd) have been patched to call the functions in k5dfspag when the situation is right. They are ifdef with DCE. The patches are also originally from Doug but they where against MIT krb5 code and have been merged into heimdal by me.
I will try to fix ftpd soon...

There is also an ifdefs for DCE && AIX that can be used to make AIX use DCE for getting group/passwd entries. This is needed if one is running with a bare bones passwd/group file and AUTHSTATE set to DCE (This will be more or less clear to people doing this...) I have forced this on for now.
k5dflspag.c is in lib/krb5
k5dflspag.c is dependent on DCE only.
It is also POSIX systems only. There are defines for the location of
k5dcecon and dpagaix that needs a correct configure setting.

k5dcecon needs no special things for the compile except whatever is needed
on the target system to compile dce programs.
(On aix the dce compile flags are: -D_THREAD_SAFE -D_AIX32_THREADS=1 -D_AIX41 -D_AES_SOURCE
or one can use xlc_r4 if it is version 3.6.4 or later)

k5dcecon wants the following libs (on aix 4.3):
-lldce (and setenv from somewhere)

dpagaix is only needed on AIX (see k5dflspag.c).
dpagaix needs dfspag.exp and is linked with
ld -edpagaix -o dpagaix dpagaix.o dfspag.exp

Hope to get this into heimdal soon :-) although I know that you will have to
change some things to get it cleanly into configure. Since I don't know the
structure of the code (heimdal), nor enough of configure, good enough I
just won't try it myself.

One more thing, to get this to work one has to put fcache_version = x in
krb5.conf where x = whatever the DCE implementation understands, (usually
1 or 2).
Thanks for adding that...

"ke Sandgren (ake@hpc2n.umu.se)
HPC2N
Ume" University
Sweden

PS
I have now added patches for configure.in and some Makefile.am's to get this
all cleanly (I hope) into heimdal.
Note on ksu
----------
This program is not installed setuid root by default. If you want to
install it setuid root, then you can override the package permissions
with:

dpkg-statoverride --update --add root root 4755 /usr/bin/ksu

Note on ipropd and/or hpropd
--------------------------
The following entries may be required in you /etc/services
file (see bug #139845):

    krb_prop    754/tcp    # Kerberos slave propagation
    iprop       2121/tcp   # incremental propagation

Note on kerberos.8 man page

This man page is not currently included due to conflict with kerberos4kth-kdc package. For more information on Kerberos, see:

Installing heimdal for Debian

(Note: if you do not have a krb4 KDC, you may need to include "krb4_get_tickets = no" in the [libdefaults] section of kdc.conf; otherwise kinit will complain with an error).

Things you will have to do manually (see info documentation for details):

On KDC:
1. Add administrator keys using kadmin.

For example:

    # kadmin -l
    kadmin> add bam/admin
    Max ticket life [unlimited]:
    Max renewable life [unlimited]:
    Principal expiration time [never]:
    Password expiration time [never]:
    Attributes []:
    bam/admin@CHOCBIT.ORG.AU's Password:
    Verifying password - bam/admin@CHOCBIT.ORG.AU's Password:

2. Add kadmin/admin key to KDC:

For example:

    # kadmin -l
    kadmin> add -r kadmin/admin@CHOCBIT.ORG.AU
    Max ticket life [unlimited]:
    Max renewable life [unlimited]:
    Principal expiration time [never]:
    Password expiration time [never]:
    Attributes []:

    (note: this key doesn't need to be extracted).

3. Enable remote administration by creating /etc/heimdal-kdc/kadmind.acl
For example:
echo 'bam/admin@CHOCBIT.ORG.AU all' > /etc/heimdal-kdc/kadmind.acl

4. Test.

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> list *
[should list all keys]

5. Add user keys

For example:
# kadmin -p bam/admin
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add bam

On other computers:
1. If you installed heimdal-clients-x or heimdal-servers-x,
then you will need to add the following entry to /etc/services
kx              2111/tcp                        # X over kerberos
(check to make sure this doesn't already exist).
2. edit /etc/krb5.conf
3. setup secret keys each computer, using kadmin and/or ktutil.

For example, on remote computer dewey.chocbit.org.au:
bam/admin@CHOCBIT.ORG.AU's Password:
kadmin> add -r host/dewey.chocbit.org.au
[...]
kadmin> ext host/dewey.chocbit.org.au
kadmin> add -r ftp/dewey.chocbit.org.au
[...]
kadmin> ext ftp/dewey.chocbit.org.au

The ext command extracts keys to /etc/krb5.keytab, where
they can be inspected with the "ktutil list" command at the
shell prompt.

Tell me if any files conflict with any other package - do not
try to force the package to install, otherwise things may break...
In general, this package conflicts with kerberos4kth and
probably MIT Kerberos (not packaged as of potato). Local
installations under /usr/local should be OK.

Changes from upstream source:
1. popper checks for $HOME/Maildir, $HOME/Mailbox and /var/spool/mail/<user> in that order.
2. /var/lib/heimdal-kdc used instead of /var/heimdal
3. /usr/bin/login moved to /usr/lib/heimdal-servers
4. /usr/lib/heimdal-servers used instead of /usr/libexec
5. telnet and ftp have been renamed to ktelnet and kftp, and use the update-alternatives mechanism. In the future, this should allow heimdal-clients to exist at the same time as telnet-ssl.
6. kdc config files kdc.conf andkadmind.acl stored in /etc/heimdal-kdc instead of /usr/lib/heimdal-servers.

Automatically creating users

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

Option #1: Use perl glue found at <ftp://ftp.su.se/pub/users/leifj/Heimdal-Kadm5-0.04.tar.gz>

Option #2: cat kadmin-commands | kadmin

For more details, see <http://bugs.debian.org/276402>.

-- Brian May <bam@debian.org>, Wed, 8 Dec 1999 11:54:13 +1100

-- in order of preference

- client: support KRB5_PADATA_ENCRYPTED_CHALLENGE in lib/krb5/init_creds_pw.c
- client: don't support ENC-TS in FAST

- client: plugin support for fast plugins

- kdc: plugin support for fast plugins
- partly done with "struct kdc_patypes"

- kcm: support FAST armor ticket
- -- using PK-INIT anonymous
- -- using host key

- client: tgs-req fast support
- kdc: tgs-req fast support

This is a distribution of both client and server telnet. These programs have been compiled on:
telnet
telnetd
4.4 BSD-Lite  x  x
4.3 BSD Reno  X  X
UNICOS 9.1  X  X
UNICOS 9.0  X  X
UNICOS 8.0 X X
BSDI 2.0 X X
Solaris 2.4 x x (no linemode in server)
SunOs 4.1.4 X X (no linemode in server)
Ulrix 4.3 X X (no linemode in server)
Ulrix 4.1 X X (no linemode in server)

In addition, previous versions have been compiled on the following machines, but were not available for testing this version.
telnet
telnetd
Next1.0 X X
UNICOS 8.3 X X
UNICOS 7.C X X
UNICOS 7.0 X X
SunOs 4.0.3c X X (no linemode in server)
4.3 BSD X X (no linemode in server)
DYNIX V3.0.12 X X (no linemode in server)
Ulrix 3.1 X X (no linemode in server)
Ulrix 4.0 X X (no linemode in server)
SunOs 3.5 X X (no linemode in server)
SunOs 4.1.3 X X (no linemode in server)
Solaris 2.2 x x (no linemode in server)
Solaris 2.3 x x (no linemode in server)
BSDI 1.0 X X
BSDI 1.1 X X
DYNIX V3.0.17.9 X X (no linemode in server)
HP-UX 8.0 x x (no linemode in server)

This code should work, but there are no guarantees.

May 30, 1995

This release represents what is on the 4.4BSD-Lite2 release, which should be the final BSD release. I will continue to support of telnet. The code (without encryption) is available via anonymous ftp from ftp.cray.com, in src/telnet/telnet.YY.MM.DD.NE.tar.Z, where YY.MM.DD is replaced with the year, month and day of the release. If you can't find it at one of these places, at some point in the near future information about the latest releases should be available from ftp.borman.com.

In addition, the version with the encryption code is available via ftp from net-dist.mit.edu, in the directory /pub/telnet. There is a README file there that gives further information on how to get the distribution.

Questions, comments, bug reports and bug fixes can be sent to one of these addresses:
This release is mainly bug fixes and code cleanup.

Replace all calls to bcopy()/bzero() with calls to memmove()/memset() and all calls to index()/rindex() with calls to strchr()/strchr().

Add some missing diagnostics for option tracing to telnetd.

Add support for BSDI 2.0 and Solaris 2.4.

Add support for UNICOS 8.0.

Get rid of expanded tabs and trailing white spaces.

From Paul Vixie:
Fix for telnet going into an endless spin when the session dies abnormally.

From Jef Poskanzer:
Changes to allow telnet to compile under SunOS 3.5.

From Philip Guenther:
makeutx() doesn’t expand utmpx,
use putuxline() instead.

From Chris Torek:
Add a sleep(1) before execing login to avoid race condition that can eat up the login prompt.
Use terminal speed directly if it is not an encoded value.

From Steve Parker:
Fix to realloc() call. Fix for execing login on solaris with no user name.

January 19, 1994

This is a list of some of the changes since the last tar release of telnet/telnetd. There are probably other changes that aren’t listed here, but this should hit a lot of the main ones.
General:
Changed #define for AUTHENTICATE to AUTHENTICATION
Changed #define for ENCRYPT to ENCRYPTION
Changed #define for DES_ENCRYPT to DES_ENCRYPTION

Added support for SPX authentication: -DSPX

Added support for Kerberos Version 5 authentication: -DKRB5

Added support for ANSI C function prototypes

Added support for the NEW-ENVIRON option (RFC-1572)
including support for USERVAR.

Made support for the old Environment Option (RFC-1408)
conditional on -DOLD_ENVIRON

Added #define ENV_HACK - support for RFC 1571

The encryption code is removed from the public distributions.
Domestic 4.4 BSD distributions contain the encryption code.

ENV_HACK: Code to deal with systems that only implement
the old ENVIRON option, and have reversed definitions
of ENV_VAR and ENV_VAL. Also fixes ENV processing in
client to handle things besides just the default set...

NO_BSD_SETJMP: UNICOS configuration for
UNICOS 6.1/6.0/5.1/5.0 systems.

STREAMSPTY: Use /dev/ptmx to get a clean pty. This
is for SVr4 derivatives (Like Solaris)

UTMPX: For systems that have /etc/utmpx. This is for
SVr4 derivatives (Like Solaris)

Definitions for BDI 1.0

Definitions for 4.3 Reno and 4.4 BSD.

Definitions for UNICOS 8.0 and UNICOS 7.C

Definitions for Solaris 2.0

Definitions for HP-UX 8.0

Latest Copyright notices from Berkeley.
FLOW-CONTROL: support for RFC-XXXx

Client Specific:

Fix the "send" command to not send garbage...

Fix status message for "skipre"

Make sure to send NAWS after telnet has been suspended or an external command has been run, if the window size has changed.

sysV88 support.

Server Specific:

Support flowcontrol option in non-linemode servers.

-k Server supports Kludge Linemode, but will default to either single character mode or real Linemode support. The user will have to explicitly ask to switch into kludge linemode. ("stty extproc", or escape back to telnet and say "mode line").

-u Specify the length of the hostname field in the utmp file. Hostname longer than this length will be put into the utmp file in dotted decimal notation, rather than putting in a truncated hostname.

-U Registered hosts only. If a reverse hostname lookup fails, the connection will be refused.

-ff/-F

Allows forwarding of credentials for KRB5.

February 22, 1991:

Features:

This version of telnet/telnetd has support for both the AUTHENTICATION and ENCRYPTION options. The AUTHENTICATION option is fairly well defined, and an option number has been assigned to it. The ENCRYPTION option is still in a state of flux; an option number has been assigned to, but it is still subject to change. The code is provided in this release for experimental and testing purposes.
The telnet "send" command can now be used to send do/dont/will/wont commands, with any telnet option name. The rules for when do/dont/will/wont are sent are still followed, so just because the user requests that one of these be sent doesn't mean that it will be sent...

The telnet "getstatus" command no longer requires that option printing be enabled to see the response to the "DO STATUS" command.

A -n flag has been added to telnetd to disable keepalives.

A new telnet command, "auth" has been added (if AUTHENTICATE is defined). It has four sub-commands, "status", "disable", "enable" and "help".

A new telnet command, "encrypt" has been added (if ENCRYPT is defined). It has many sub-commands: "enable", "type", "start", "stop", "input", "-input", "output", "-output", "status", and "help".

The LOGOUT option is now supported by both telnet and telnetd, a new command, "logout", was added to support this.

Several new toggle options were added:
  "autoencrypt", "autodecrypt", "autologin", "authdebug", "encdebug", "skiprc", "verbose_encrypt"

An "rlogin" interface has been added. If the program is named "rlogin", or the "-r" flag is given, then an rlogin type of interface will be used.
~. Terminates the session
~<susp> Suspend the session
~^[] Escape to telnet command mode
~~ Pass through the ~.
    BUG: If you type the rlogin escape character in the middle of a line while in rlogin mode, you cannot erase it or any characters before it. Hopefully this can be fixed in a future release...

General changes:

A "libtelnet.a" has now been created. This library
contains code that is common to both telnet and
telnetd. This is also where library routines that
are needed, but are not in the standard C library,
are placed.

The makefiles have been re-done. All of the site
specific configuration information has now been put
into a single "Config.generic" file, in the top level
directory. Changing this one file will take care of
all three subdirectories. Also, to add a new/local
definition, a "Config.local" file may be created
at the top level; if that file exists, the subdirectories
will use that file instead of "Config.generic".

Many 1-2 line functions in commands.c have been
removed, and just inserted in-line, or replaced
with a macro.

Bug Fixes:

The non-termio code in both telnet and telnetd was
setting/clearing CTLECH in the sg_flags word. This
was incorrect, and has been changed to set/clear the
LCTLECH bit in the local mode word.

The SRCRT #define has been removed. If IP_OPTIONS
and IPPROTO_IP are defined on the system, then the
source route code is automatically enabled.

The NO_GETTYTAB #define has been removed; there
is a compatibility routine that can be built into
libtelnet to achieve the same results.

The server, telnetd, has been switched to use getopt()
for parsing the argument list.

The code for getting the input/output speeds via
cfgetispeed()/cfgetospeed() was still not quite
right in telnet. Posix says if the ispeed is 0,
then it is really equal to the ospeed.

The suboption processing code in telnet now has
explicit checks to make sure that we received
the entire suboption (telnetd was already doing this).

The telnet code for processing the terminal type
could cause a core dump if an existing connection
was closed, and a new connection opened without
Telnetd was doing a TCSADRAIN when setting the new terminal settings; This is not good, because it means that the tcsetattr() will hang waiting for output to drain, and telnetd is the only one that will drain the output... The fix is to use TCSANOW which does not wait.

Telnetd was improperly setting/clearing the ISTRIP flag in the c_iflag field, it should be using the c_iflag field.

When the child process of telnetd was opening the slave side of the pty, it was re-setting the EXTPROC bit too early, and some of the other initialization code was wiping it out. This would cause telnetd to go out of linemode and into single character mode.

One instance of leaving linemode in telnetd forgot to send a WILL ECHO to the client, the net result would be that the user would see double character echo.

If the MODE was being changed several times very quickly, telnetd could get out of sync with the state changes and the returning acks; and wind up being left in the wrong state.

September 14, 1990:

Switch the client to use getopt() for parsing the argument list. The 4.3Reno getopt.c is included for systems that don't have getopt().

Use the posix _POSIX_VDISABLE value for what value to use when disabling special characters. If this is undefined, it defaults to 0x3ff.

For non-termio systems, TIOCSETP was being used to change the state of the terminal. This causes the input queue to be flushed, which we don't want. This is now changed to TIOCSETN.

Take out the "#ifdef notdef" around the code in the server that generates a "sync" when the pty output is flushed. The potential problem is that some older telnet clients may go into an infinite loop when they
receive a "sync", if so, the server can be compiled with "NO_URGENT" defined.

Fix the client where it was setting/clearing the OPOST bit in the c_iflag field, not the c_oflag field.

Fix the client where it was setting/clearing the ISTRIP bit in the c_iflag field, not the c_iflag field. (On 4.3Reno, this is the ECHOPRT bit in the c_iflag field.) The client also had its interpretation of WILL BINARY and DO BINARY reversed.

Fix a bug in client that would cause a core dump when attempting to remove the last environment variable.

In the client, there were a few places were switch() was being passed a character, and if it was a negative value, it could get sign extended, and not match the 8 bit case statements. The fix is to and the switch value with 0xff.

Add a couple more printoption() calls in the client, I don't think there are any more places were a telnet command can be received and not printed out when "options" is on.

A new flag has been added to the client, "-a". Currently, this just causes the USER name to be sent across, in the future this may be used to signify that automatic authentication is requested.

The USER variable is now only sent by the client if the "-a" or "-l user" options are explicitly used, or if the user explicitly asks for the "USER" environment variable to be exported. In the server, if it receives the "USER" environment variable, it won't print out the banner message, so that only "Password:" will be printed. This makes the symantics more like rlogin, and should be more familiar to the user. (People are not used to getting a banner message, and then getting just a "Password:" prompt.)

Re-vamp the code for starting up the child login process. The code was getting ugly, and it was hard to tell what was really going on. What we do now is after the fork(), in the child:
1) make sure we have no controlling tty
2) open and initialize the tty
3) do a setsid()/setpgrp()
4) makes the tty our controlling tty.
On some systems, #2 makes the tty our controlling tty, and #4 is a no-op. The parent process does a gets rid of any controlling tty after the child is fork()ed.

Use the strdup() library routine in telnet, instead of the local savestr() routine. If you don't have strdup(), you need to define NO_STRDUP.

Add support for ^T (SIGINFO/VSTATUS), found in the 4.3Reno distribution. This maps to the AYT character. You need a 4-line bugfix in the kernel to get this to work properly:

```c
> *** tty_pty.c.ORG Tue Sep 11 09:41:53 1990
> --- tty_pty.c Tue Sep 11 17:48:03 1990
> **************
> *** 609,613 ****
> if ((tp->tlflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data);
> return(0);
> }
> --- 609,616 ----
> if ((tp->tlflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data, 1);
> ! if ((*(unsigned int *)data == SIGINFO) &&
>    ! (*tp->tlflag&NOKERNINFO) == 0))
> ! ttyinfo(tp);
> return(0);
> }
```

The client is now smarter when setting the telnet escape character; it only sets it to one of VEOL and VEOL2 if one of them is undefined, and the other one is not already defined to the telnet escape character.

Handle TERMIOS systems that have separate input and output line speed settings imbedded in the flags.

Many other minor bug fixes.

June 20, 1990:
Re-organize makefiles and source tree. The telnet/Source directory is now gone, and all the source that was in
Seperate makefile for each system are now gone. There are two makefiles, Makefile and Makefile.generic. The "Makefile" has the definitions for the various system, and "Makefile.generic" does all the work. There is a variable called "WHAT" that is used to specify what to make. For example, in the telnet directory, you might say:

```
make 4.4bsd WHAT=clean
to clean out the directory.
```

Add support for the ENVIRON and XDISPLOC options.
In order for the server to work, login has to have the "-p" option to preserve environment variables.

Add the SOFT_TAB and LIT_ECHO modes in the LINEMODE support.

Add the "-l user" option to command line and open command (This is passed through the ENVIRON option).

Add the "-e" command line option, for setting the escape character.

Add the "-D", diagnostic, option to the server. This allows the server to print out debug information, which is very useful when trying to debug a telnet that doesn't have any debugging ability.

Turn off the literal next character when not in LINEMODE.

Don't recognize ^Y locally, just pass it through.

Make minor modifications for Sun4.0 and Sun4.1

Add support for both FORW1 and FORW2 characters. The telnet escape character is set to whichever of the two is not being used. If both are in use, the escape character is not set, so when in linemode the user will have to follow the escape character with a <CR> or <EOF) to get it passed through.

Commands can now be put in single and double quotes, and a backslash is now an escape character. This is needed for allowing arbitrary strings to be assigned to environment variables.

Switch telnetd to use macros like telnet for keeping
track of the state of all the options.

Fix telnetd's processing of options so that we always do
the right processing of the LINEMODE option, regardless
of who initiates the request to turn it on. Also, make
sure that if the other side went "WILL ECHO" in response
to our "DO ECHO", that we send a "DONT ECHO" to get the
option turned back off!

Fix the TERMIO setting of the terminal speed to handle both
BSD's separate fields, and the SYSV method of CBAUD bits.

Change how we deal with the other side refusing to enable
an option. The sequence used to be: send DO option; receive
WONT option; send DONT option. Now, the sequence is: send
DO option; receive WONT option. Both should be valid
according to the spec, but there has been at least one
client implementation of telnet identified that can get
really confused by this. (The exact sequence, from a trace
on the server side, is (numbers are number of responses that
we expect to get after that line...):

send WILL ECHO1 (initial request)
send WONT ECHO2 (server is changing state)
recv DO ECHO1 (first reply, ok. expect DONT ECHO next)
send WILL ECHO2 (server changes state again)
recv DONT ECHO1 (second reply, ok. expect DO ECHO next)
recv DONT ECHO0 (third reply, wrong answer. got DONT!!!)
***send WONT ECHO (send WONT to acknowledge the DONT)
send WILL ECHO1 (ask again to enable option)
recv DO ECHO0
recv DONT ECHO0
send WONT ECHO1
recv DONT ECHO0
recv DO ECHO1
send WILL ECHO0
(and the last 5 lines loop forever)

The line with the "***" is last of the WILL/DONT/WONT sequence.
The change to the server to not generate that makes this same
example become:

send will ECHO1
send wont ECHO2
recv do ECHO1
send will ECHO2
recv dont ECHO1
recv dont ECHO0
recv do ECHO1
send will ECHO0

There is other option negotiation going on, and not sending the third part changes some of the timings, but this specific example no longer gets stuck in a loop. The "telnet.state" file has been modified to reflect this change to the algorithm.

A bunch of miscellaneous bug fixes and changes to make lint happier.

This version of telnet also has some KERBEROS stuff in it. This has not been tested, it uses an un-authorized telnet option number, and uses an out-of-date version of the (still being defined) AUTHENTICATION option. There is no support for this code, do not enable it.

March 1, 1990:
CHANGES/BUGFIXES SINCE LAST RELEASE:
Some support for IP TOS has been added. Requires that the kernel support the IP_TOS socket option (currently this is only in UNICOS 6.0).

Both telnet and telnetd now use the cc_t typedef. typedefs are included for systems that don't have it (in termios.h).

SLC_SUSP was not supported properly before. It is now.

IAC EOF was not translated properly in telnetd for SYSV_TERMIO when not in linemode. It now saves a copy of the VEOF character, so that when ICANON is turned off and we can't trust it anymore (because it is now the VMIN character) we use the saved value.

There were two missing "break" commands in the linemode processing code in telnetd.

Telnetd wasn't setting the kernel window size information properly. It was using the rows for both rows and columns...

Questions/comments go to
David Borman
Cray Research, Inc.
655F Lone Oak Drive
Eagan, MN 55123
dab@cray.com.
README: You are reading it.

Config.generic:
This file contains all the OS specific definitions. It
has pre-definitions for many common system types, and is
in standard makefile format. See the comments at the top
of the file for more information.

Config.local:
This is not part of the distribution, but if this file exists,
it is used instead of "Config.generic". This allows site
specific configuration without having to modify the distributed
"Config.generic" file.

kern.diff:
This file contains the diffs for the changes needed for the
kernel to support LINEMODE is the server. These changes are
for a 4.3BSD system. You may need to make some changes for
your particular system.

There is a new bit in the terminal state word, TS_EXTPROC.
When this bit is set, several aspects of the terminal driver
are disabled. Input line editing, character echo, and
mapping of signals are all disabled. This allows the telnetd
to turn of these functions when in linemode, but still keep
track of what state the user wants the terminal to be in.

New ioctl(s):

TIOCSEXTTurn on/off the TS_EXTPROC bit
TIOCSTATEGet t_state of tty to look at TS_EXTPROC bit
TIOCSIGGenerate a signal to processes in the
current process group of the pty.

There is a new mode for packet driver, the TIOCPKT_IOCTL bit.
When packet mode is turned on in the pty, and the TS_EXTPROC
bit is set, then whenever the state of the pty is changed, the
next read on the master side of the pty will have the TIOCPKT_IOCTL
bit set, and the data will contain the following:

struct xx {
    struct sgttyb a;
    struct tchars b;
    struct ltchars c;
    int t_state;
    int t_flags;
};

This allows the process on the server side of the pty to know
when the state of the terminal has changed, and what the new
state is.

However, if you define USE_TERMIO or SYSV_TERMIO, the code will expect that the structure returned in the TIOCPKT_IOCTL is the termio/termios structure.

stty.diff:
This file contains the changes needed for the stty(1) program to report on the current status of the TS_EXTPROC bit. It also allows the user to turn on/off the TS_EXTPROC bit. This is useful because it allows the user to say "stty -extproc", and the LINEMODE option will be automatically disabled, and saying "stty extproc" will re-enable the LINEMODE option.

telnet.state:
Both the client and server have code in them to deal with option negotiation loops. The algorithm that is used is described in this file.

telnet:
This directory contains the client code. No kernel changes are needed to use this code.

telnetd:
This directory contains the server code. If LINEMODE or KLUDGELINEMODE are defined, then the kernel modifications listed above are needed.

libtelnet:
This directory contains code that is common to both the client and the server.

arpa:
This directory has a new <arpa/telnet.h>

libtelnet/Makefile.4.4:
telnet/Makefile.4.4:
telnetd/Makefile.4.4:
These are the makefiles that can be used on a 4.3Reno system when this software is installed in /usr/src/lib/libtelnet, /usr/src/libexec/telnetd, and /usr/src/usr.bin/telnet.

The following TELNET options are supported:

LINEMODE:
The LINEMODE option is supported as per RFC1116. The FORWARDMASK option is not currently supported.
BINARY: The client has the ability to turn on/off the BINARY option in each direction. Turning on BINARY from server to client causes the LITOUT bit to get set in the terminal driver on both ends, turning on BINARY from the client to the server causes the PASS8 bit to get set in the terminal driver on both ends.

TERMINAL-TYPE:
This is supported as per RFC1091. On the server side, when a terminal type is received, termcap/terminfo is consulted to determine if it is a known terminal type. It keeps requesting terminal types until it gets one that it recognizes, or hits the end of the list. The server side looks up the entry in the termcap/terminfo data base, and generates a list of names which it then passes one at a time to each request for a terminal type, duplicating the last entry in the list before cycling back to the beginning.

NAWS: The Negotiate about Window Size, as per RFC 1073.

TERMINAL-SPEED:
Implemented as per RFC 1079

TOGGLE-FLOW-CONTROL:
Implemented as per RFC 1080

TIMING-MARK:
As per RFC 860

SGA: As per RFC 858

ECHO: As per RFC 857

LOGOUT: As per RFC 727

STATUS:
The server will send its current status upon request. It does not ask for the clients status. The client will request the servers current status from the "send getstatus" command.

ENVIRON:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued, but should be in the near future...

X-DISPLAY-LOCATION:
This functionality can be done through the ENVIRON option, it is added here for completeness.

AUTHENTICATION:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued. The basic framework is pretty much decided, but the definitions for the specific authentication schemes is still in a state of flux.

ENCRYPTION:
This option is currently being defined by the IETF Telnet Working Group, and an RFC has not yet been issued. The draft RFC is still in a state of flux, so this code may change in the future.
LibTomMath is hereby released into the Public Domain.

-- Tom St Denis
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AES in libhcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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Kerberos RT #3466
Debian bug #261712

--- krb5/src/appl/telnet/telnet/sys_bsd.c
---------------------------------------------------------------
--- krb5/src/appl/telnet/telnet/sys_bsd.c(revision 2038)
+++ krb5/src/appl/telnet/telnet/sys_bsd.c(local)
@@ -43,6 +43,8 @@
#include <sys/types.h>
#include <sys/socket.h>
+#include <sys/ioctl.h>

#ifdef HAVE_SYS_SELECT_H
#include <sys/select.h>
#endif

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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
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with /*- and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^\*\* \* (.*?)[^\*]$', lines[ln])
    if m:
        if m.group(1) != fname:
warn(fname, ln, 'Wrong filename in comment')
ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
        code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
        ln += 1
for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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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
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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```
lib/gssapi/generic/gssapi_err_generic.c
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
```
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/kdb/kdb_log.h`
- `lib/krb5/gssapiP_spnego/...c`
class="o"/>
</span><span class="n">error_tables</span><span class="o">/</span><span class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
</div>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `~/src/lib/gssapi` , including the following files:

.. parsed-literal::

   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

and the initial implementation of incremental propagation, including
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.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
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/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
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
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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
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lib/gssapi/mechglue/g_init_sec_context.c
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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
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```python
lib/gssapi/generic/gssapi_err_generic
```

including the following files:

```python
lib/gssapi/mechglue/g_accept_sec_context
lib/gssapi/mechglue/g_acquire_cred
lib/gssapi/mechglue/g_canon_name
lib/gssapi/mechglue/g_compare_name
lib/gssapi/mechglue/g_context_time
lib/gssapi/mechglue/g_delete_sec_context
lib/gssapi/mechglue/g_dsp_name
lib/gssapi/mechglue/g_dsp_status
lib/gssapi/mechglue/g_dup_name
```
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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#
# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.

import os
import sys
import re
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/-*' and we don't want to change them.
    if line != '' and line != '-*
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-* mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/* ([^ ]*) (. -.*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() !="":
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

1.232 libkrb5support0:amd64 1.13.2+dfsg:5ubuntu2.1

1.232.1 Available under license:
Patch for GNU/kFreeBSD portability from Petr Salinger
<Petr.Salinger@t-systems.cz>.

Kerberos RT #3466
Debian bug #261712

=== krb5/src/appl/telnet/telnet/sys_bsd.c

@@ -43,6 +43,8 @@
#include <sys/types.h>
#include <sys/time.h>
#include <sys/socket.h>
+#include <sys/ioctl.h>
+
#define HAVE_SYS_SELECT_H
#include <sys/select.h>
#endif

--- krb5/src/appl/telnet/telnetd/defs.h
--- krb5/src/appl/telnet/telnetd/defs.h (revision 2038)
+++ krb5/src/appl/telnet/telnetd/defs.h (local)
@@ -38,6 +38,7 @@

*/
#include <sys/types.h>
#include <sys/param.h>
+#include <sys/ioctl.h>

ifndef BSD
#define BSD 43
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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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```python
lib/gssapi/generic/gssapi_err_generic.c
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
```
class="o"/>\</span><span class="n">mechglue</span>\</span><span class="o"/>\</span><span class="n">g_dsp_name</span>\</span><span class="o"/>\</span><span class="n">gssapi</span>\</span><span class="o"/>\</span><span class="n">g_dup_name</span>\</span><span class="o"/>\</span><span class="n">g_exp_sec_context</span>\</span><span class="o"/>\</span><span class="n">g_export_name</span>\</span><span class="o"/>\</span><span class="n">g_glue</span>\</span><span class="o"/>\</span><span class="n">g_imp_name</span>\</span><span class="o"/>\</span><span class="n">g_imp_sec_context</span>\</span><span class="o"/>\</span><span class="n">g_init_sec_context</span>\</span><span class="o"/>\</span><span class="n">g_initialize</span>\</span><span class="o"/>\</span><span class="n">g_inquire_context</span>\</span><span class="o"/>\</span><span class="n">g_inquire_cred</span>\</span><span class="o"/>\</span><span class="n">g_inquire_names</span>\</span><span class="o"/>\</span><span class="n">g_process_context</span>\</span><span class="o"/>\</span><span class="n">g_rel_buffer</span>\</span><span class="o"/>\</span><span class="n">g_rel_cred</span>\</span><span class="o"/>\</span><span class="n">lib</span>
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kadmin/server
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

   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
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   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
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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cmd/krb5/iprop/iprop.x
 cmd/krb5/iprop/iprop_hdr.h
 cmd/krb5/kadmin/server/ipropd_svc.c
 cmd/krb5/kproplog/kproplog.c
 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mach_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
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 lib/libgss/g_dup_name.c
 lib/libgss/g_exp_sec_context.c
 lib/libgss/g_export_name.c
 lib/libgss/g_glue.c
 lib/libgss/g_imp_name.c
 lib/libgss/g_imp_sec_context.c
 lib/libgss/g_init_sec_context.c
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 lib/libgss/g_inquire_context.c
 lib/libgss/g_inquire_cred.c
 lib/libgss/g_inquire_names.c
 lib/libgss/g_process_context.c
```
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False

for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break

# DB2 licenses start with '/' and we don’t want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* \([^ \]*\)\([^ \]*\)?\*$', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'//.*', '', line)
            line = line.strip()
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())

    # Check for license statements.
    in_license = False
    for line in lines[ln:]:
        if not in_license:  
            line = re.sub(r'//.*', '', line)
            line = line.strip()
        if not in_license and '//' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
.. _mitK5license:

This package was debianized by Sam Hartman <hartmans@permabit.com> on Thu, 19 Oct 2000 16:05:06 -0400.

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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

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/krb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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import sys
import re

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    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    return is_license

#
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*-.' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)(( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at, 
    code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != ":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */

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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:</p>
<div class="highlight-python"><div class="highlight"><pre><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">generic</span><span class="o">/</span><span class="n">gssapi_err_generic</span><span class="o">.</span><span class="n">et</span>
</pre></div></div>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_context_time</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_delete_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_status</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dup_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_exp_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_export_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_glue</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_name</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_initiate</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_context</span><span class="o">.</span><span class="n">c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_cred</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_names</span><span class="o">.</span><span class="n">c</span><span class="o">.</span><span class="n">c</span><span class="o">.</span><span class="n">c</span><span class="o">.</span>
and the initial implementation of incremental propagation, including
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- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `slave/kpropd_rpc.c`
- `slave/kproplog.c`

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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
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the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Regards, Juan

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To: Stephen Frost <sfrost@debian.org>
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* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
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* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
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changes to the files to reflect this.

Regards, Juan
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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
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* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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@end enumerate

@iftex
@end iftex
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglet;

import com.sun.java.util.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }
}
public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

if+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
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Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name

```
and optionally a list of actions that relate to the permission. The actual meaning of the name of the permission is defined only in the context of a subclass. It may name a resource to which access permissions are granted (for example, the name of a file) or it might represent something else entirely. Similarly, the action list only has meaning within the context of a subclass. Some permission names may have no actions associated with them. That is, you either have the permission or you don't.

<p>The most important method in this class is <code>implies</code>. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

<p><code>Permission</code>'s must be immutable - do not change their state after creation.

@since 1.1
@status updated to 1.4

```
public abstract class Permission implements Guard, Serializable {

  /**
   * Compatible with JDK 1.1+.
   */
  private static final long serialVersionUID = -5636570222231596674L;

  /**
   * This is the name assigned to this permission object.
   *
   * @serial the name of the permission
   */
  private String name;

  /**
   * Create an instance with the specified name.
   *
   * @param name the permission name
   */
  public Permission(String name) {
    this.name = name;
  }
```
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 */
* @return the name
*/

public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */

public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>
 * @return a new <code>PermissionCollection</code>
 */

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>('+ getClass().getName() + ' ' + getName() + ' ' + getActions
 * '+ ')</code>.  
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');

    return string.toString();
}
string = string.append(getName());

if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same as the class
 * java.security.Permission.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     * @param perm The permission to check for equality
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this Permission as a String.
     * @return A String representing this permission.
     */
    String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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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.)

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

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

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

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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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   (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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That's all there is to it!

```c
"#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>
extern "Java"
{
```

namespace gnu
{
    namespace javax
    {
        namespace sound
        {
            class AudioSecurityManager$Permission;
        }
    }
    class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
    {
        AudioSecurityManager$Permission(::java::lang::String *, jint);
        public:
        static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
        static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
        static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
        static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
        static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
        private:
        static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
        public:
        static ::java::lang::Class class$;
    }
}

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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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brrent@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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
" Standard preamble:
" ========================================================================
de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\fB\$1\fR
.PP
.. 
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. 
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
...
.de Ve " End verbatim text
.ft R
\"Set up some character translations and predefined strings. \"(-- will \" give an unbreakable dash, \"PI will give pi, \"L\" will give a left \" double quote, and \"R\" will give a right double quote. \"C+ will \" give a nicer C++. Capital omega is used to do unbreakable dashes and \" therefore won't be available. \"C\" and \"C\" expand to ” in nroff, \" nothing in troff, for use with C<<:

.tr \"W-
.ds C+ Cl\'-.1v'hl'-.1p'as-2+hl'-.1p'\'s0v'.1v'hl'-.1p'
.ie n \{
  .ds -- \"W-
  .ds PI pi
  .if (.H=64u)&(1m=24u) .ds -- \"W\'-12u\'(\"W\'-12u\'-\") diablo 10 pitch
  .if (.H=64u)&(1m=20u) .ds -- \"W\'-12u\'(\"W\'-8u\'-\") diablo 12 pitch
  .ds L\" "
  .ds R\" "
  .ds C\" "
  .ds C\" "
br\}
e\{
  .ds -- \(em\)
  .ds PI \"p
  .ds L\" \"p
  .ds R\" \"p
  \no
  \a
  \n
  Escape single quotes in literal strings from groff's Unicode transform.

  .ie \n(\& .ds Aq \(aq
  .el .ds Aq \'
  \a
  If the F register is turned on, we'll generate index entries on stderr for \a\" titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index \a\" entries marked with X<< in POD. Of course, you'll have to process the \a\" output yourself in some meaningful fashion.

  .ie \nF \{
  .de IX
  .tm Index:\$1\t\n%\t\$2
  \n
  .nr \%
  .rr F
  \a
  .el \{
  .de IX
  ..
  \a
  \a
  \a
  Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
Fear. Run. Save yourself. No user-serviceable parts.

'\n'.fudge factors for nroff and troff
.if n \{
    ds #H 0
    ds #V .8m
    ds #F .3m
    ds #[ \&
    ds #] \&

    ' simple accents for nroff and troff
.if n \{
    ds ' \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds / \&

    ' troff and (daisy-wheel) nroff accents
 ds : \k:<-(\n(wu*8/10-\#(H)\v'-.1m+\#(F)'v'-.2m+\#(H)\v'-.2m+\#(F)'v'
 ds 8 \h'(\w'-.2m+\#(H)\h'-.2m+\#(F)'v'
 ds o \k:<-(\n(wu+\(de'u-\#(H)2u'-.3m*\#(H)de\v'.3m\h'|\n:u*('#)
 ds d- \h'(\w'-.2m+\#(H)\v'.25*\w'-.25*\w'-.25*\v'
 ds D- D\k:<-(\n(wu*\w'-.11m\v')(\v'.11m\h'|\n:u'
 ds th V*(\#(V'-.3m's+1s-1\v'.3m\h'-(\w'*2/3)\w'-1s-1s+1\v*('#)
 ds Th V*(\#(V'-.3m's+1s-1\v'.3m\h'-(\w'*2/3)\w'-.4m'\v'.4m'\h'|\n:u'
 ds ae a\h'-(w'a'u*4/10)'e
 ds Ae A\h'-(w'A'u*4/10)'E

 ' corrections for vroff
.if v .ds ~ \k:<-(\n(wu*9/10-\#(H)'h'-2u-\d's+2h'|\n:u'
.if v .ds \k:<-(\n(wu*10/11-\#(H)'h'-4m'\v'.4m'\h'|\n:u'

 ' for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \}
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Sh "How to Apply These Terms to Your New Programs"

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adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) \
    fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".comm ", (FILE)), \
      assemble_name ((FILE), (NAME)), \
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".lcomm ", (FILE)), \
      assemble_name ((FILE), (NAME)), \
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
    ( fputs (".lcomm ", (FILE)), \
      assemble_name ((FILE), (NAME)), \
      fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostbyname_r.m4

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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ':' + string
    sys.stderr.write (string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symmlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
return re.compile ('\t')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
# Characters in a range of years. Include '.' for typos.
ranges = '[0-9]\(?[-0-9,\.\s]+and[\s+]\)?[0-9]-' 

# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]' 

# Matches one year.
self.year_re = re.compile ('[0-9]+') 

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name) 

# Matches a full copyright notice:
self.copyright_re = re.compile ( 
    # 1: 'Copyright (C)', etc.
    '[Cc]opyright
    \[[Cc]opyright\s+\[Cc]\]
    \[[Cc]opyright\s+\%
    \[[Cc]opyright\s+\&copy;
    \[[Cc]opyright\s+\@copyright\]
    \[copyright = u\]
    \[@set\s+copyright\[w\-\]+\]' 

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '(\s*(' + ranges + ',?|\@value\{[^{}]*\})\s*)'

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(\s*' + name + '\(\s*\s*\s*\)+\s*\s*\s*\s*\)\s*)' 

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('copyright.*[0-9]\[0-9\]', re.IGNORECASE) 

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ') 

    self.holders = {'@copying': '@copying'} 

    self.holder_prefixes = set() 

    # True to 'quilt add' files before changing them.
    self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
res = self.update_copyright (dir, filename, filter,
    file, line, match)
(this_changed, line, next_line) = res
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append (line)
    line = next_line

    # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []
def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):  
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
if len (self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#........................................................................
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['
            # Not part of GCC
            'math-68881.h',
        ])  
        self.skip_dirs |= set (['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            ])
            # Handled separately.
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
GenericFilter.__init__(self)

self.skip_files |= set([
    # Contains no copyright of its own, but quotes the GPL.
    'intro.xml',
])

self.skip_dirs |= set([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecmumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using
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library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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(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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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.

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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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.

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.

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.

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

For an executable, the required form of the `work that uses the Library' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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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
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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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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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<signature of Ty Coon>, 1 April 1990
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==============================================================================

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11627
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface
#include <java/lang/Object.h>
extern "Java"
{  
namespace java  
{   
namespace security  
{     
namespace acl  
{        
        class Permission;  
     
    
    
    
class java::security::acl::Permission : public ::java::lang::Object  
{   
public:      
        virtual jboolean equals(::java::lang::Object *) = 0;  
        virtual ::java::lang::String * toString() = 0;  
static ::java::lang::Class class$;  
} __attribute__ ((java_interface));  
} endif // __java_security_acl_Permission__   

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sunavadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}

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else {
    return null;
}
}
}
if (gnu.classpath.tools.taglets.CopyrightTaglet;java/lang/Object;com/sun/tools/doclets/TagletNAME;java/lang/String;
ConstantValue;copyrightHEADER
Copyright: <init>()V
Code
LineNumberTable;LocalVariableTable;this-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField();Z
inConstructor;inMethod
inOverview;inPackage;inType;isInlineTag;register(Ljava/util/Map;)V
&(*)
java/util/Map.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMap;java/util/Map;copyrightTagletToString();(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
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N<dt><i>Copyright &©</i></dt>
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BXtags;[Ljava/lang/String;haveValidTagZiIresult;Ljava/lang/StringBuffer;
SourceFile;CopyrightTaglet.java!

/*
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * this class is the abstract superclass of all classes that implement
 * the concept of a permission. a permission consists of a permission name
 * and optionally a list of actions that relate to the permission. the
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. it may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. similarly, the action list only has meaning
 * within the context of a subclass. some permission names may have no
 * actions associated with them. that is, you either have the permission
 * or you don't.
 *
 * <p>the most important method in this class is <code>implies</code>. this
 * checks whether if one has this permission, then the specified
 * permission is also implied. as a conceptual example, consider the
 * permissions "read all files" and "read file foo". the permission
 * "read all files" implies that the caller has permission to read the
public abstract class Permission implements Guard, Serializable {

  private static final long serialVersionUID = -5636570222231596674L;

  private String name;

  public Permission(String name) {
    this.name = name;
  }

  public void checkGuard(Object obj) {
    // This method implements the Guard interface for this class.
    // It calls the checkPermission method in SecurityManager with this Permission as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
    // @param obj the Object being guarded - ignored by this class
    // @throws SecurityException if the security check fails
    // @see GuardedObject
    // @see SecurityManager#checkPermission(Permission)
  }
}
{  
    SecurityManager sm = System.getSecurityManager();  
    if (sm != null)  
        sm.checkPermission(this);  
}  

/**  
* This method tests whether this <code>Permission</code> implies that the  
* specified <code>Permission</code> is also granted.  
*  
* @param perm the <code>Permission</code> to test against  
* @return true if perm is implied by this  
*/  
public abstract boolean implies(Permission perm);  

/**  
* Check to see if this object equals obj. Use <code>implies</code>, rather  
* than <code>equals</code>, when making access control decisions.  
*  
* @param obj the object to compare to  
*/  
public abstract boolean equals(Object obj);  

/**  
* This method returns a hash code for this <code>Permission</code>. It  
* must satisfy the contract of <code>Object.hashCode</code>: it must be  
* the same for all objects that equals considers to be the same.  
*  
* @return a hash value  
*/  
public abstract int hashCode();  

/**  
* Get the name of this <code>Permission</code>.  
*  
* @return the name  
*/  
public final String getName()  
{  
    return name;  
}  

/**  
* This method returns the list of actions for this <code>Permission</code>  
* as a <code>String</code>. The string should be in canonical order, for  
* example, both <code>new FilePermission(f, "write,read")</code> and  
* <code>new FilePermission(f, "read,write")</code> have the action list  
* "read,write".  
*  
*/
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}

// class Permission

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/**
 * This interface provides information about a permission that can be
 * granted.  Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 */
public interface Permission {

    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this Permission as a String.
     *
     * @return A String representing this permission.
     */
    String toString();
}

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```
1 java/security/Permission
java/lang/Object
java/security/ Guard
java/io/Serializable
serialVersionUID
ConstantValue

WQ~name
java/lang/String;

; <init>(Ljava/lang/String;)V

Code
()

LineNumberTable
LocalVariableTable
this

java/security/Permission;

checkGuard(Ljava/lang/Object;)V
!

java/lang/System
# checkPermission

(java/security/Permission;
obj
Ljava/lang/Object;
sm
java/lang/SecurityManager;

implies(Ljava/security/Permission;
Z
equals(Ljava/lang/Object;

hashCode()

getName()
java/lang/String;

getActions

newPermissionCollection&()Ljava/security/PermissionCollection;

toString;
```

: ?@ append"(C)Lgnu/java/lang/CPStringBuilder;
"BCD getClass()Ljava/lang/Class;
"FHG java/lang/Class45
"J?K3(Ljava/lang/String;)
Lgnu/java/lang/CPStringBuilder;
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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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.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
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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 other code 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.

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

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

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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   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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its purpose remains meaningful.

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is 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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      b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

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

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@c man end
@end ignore

@c This file is intended to be included in another file.

display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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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 patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS
@enumerate
@item Definitions.

``This License" refers to version 3 of the GNU General Public License.

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

``The Program" refers to any copyrightable work licensed under this
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"recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a ``modified version" of
the earlier work or a work ``based on" the earlier work.

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on the Program.

To ``propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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

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

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

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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@c man end
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'A"
'A" Standard preamble:
'A"=======================================================================
.de Sh ' Subsection heading
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.ne 5
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\FB]\$1\FR
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.de Sp ' Vertical space (when we can't use .PP)
.if t .sp .5v
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..
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Set up some character translations and predefined strings.  \*((-- will give an unbreakable dash, \*((PI will give pi, \*((L" will give a left double quote, and \*((R" will give a right double quote.  \*((C+ will give a nicer C++.  Capital omega is used to do unbreakable dashes and \*(nothing in troff, for use with C<<.

\tr \*((W-
\ds C+ C\v'-1.1\v'\h'-1p'\s-2+\h'-1p'+\s0\v'.1\v'\h'-1p'
\ie n \{
   \ds \*W-
   \ds PI pi
   \if (\n(.H=4u)&(1m=24u) \ds \*W\h'-12u/(\*W\h'-12u-\h'' diablo 10 pitch
   \if (\n(.H=4u)&(1m=20u) \ds \*W\h'-12u/(\*W\h'-8u-\h'' diablo 12 pitch
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\ds L''
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\l" Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(g .ds Aq \aq
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\l" If the F register is turned on, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD.  Of course, you’ll have to process the output yourself in some meaningful fashion.
\ie \nF \{
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Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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\if n \%
  \ds #H 0
  \ds #V .8m
  \ds #F .3m
  \ds #[ M1
  \ds #] N\%
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\if t \%
  \ds #H ((1u-(\\n(\(wu\%2u))*.13m)
  \ds #V .6m
  \ds #F 0
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simple accents for nroff and troff
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn’t be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) \
   fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
   ( fputs (".comm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
   ( fputs (".lcomm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
   ( fputs (".lcomm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG) \
   if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name`. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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this when it starts in an interactive mode:

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different; for a GUI interface, you would use an about box.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
  namespace java
  {
    namespace security
    {
      class Permission;
      class PermissionCollection;
    }
  }
}

class java::security::Permission : public ::java::lang::Object
{

public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *);
  virtual jboolean implies(::java::security::Permission *) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
  virtual ::java::lang::String * getName();
  virtual ::java::lang::String * getActions() = 0;
  virtual ::java::security::PermissionCollection * newPermissionCollection();
  virtual ::java::lang::String * toString();

private:
  static const jlong serialVersionUID = -563657022231596674LL;
  ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
;
#endif // __java_security_Permission__

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 */

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file that has been changed a "Modified by Foo Bar" line
underneath the "Written by" line would be adequate.

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

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Version 3.1, 31 March 2009

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/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
   fprintf (FILE, "t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
   to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
   fputs (".comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
   fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if have_gas_lcomm_with_alignment
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
   fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#endif
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
 that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)

" Standard preamble:

=======================================================================
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\B\\S1\fR
.PP
...
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
...
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \S1
...
... Set up some character translations and predefined strings.  
\*(-- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote.  \*(C+ will give a nicer C++.  Capital omega is used to do unbreakable dashes and therefore won’t be available.  \*(C’ and \*(C’ expand to ‘’ in nroff, nothing in troff, for use with C<>.

\*.tr \*(W-.
\*.ds C+ C\'-1\'h\'-1p\'s-2+h\'-1p'+s0\'v\'.1\'h\'-1p'
\*.ie n \{
  \*.ds -- \*(W-
  \*.ds PI pi
  \*.if (\n(\(H=4u)\&(1m=24u) .ds -- \*(W\'h\'-12u\'(\*W\'h\'-12u\'-\') diablo 10 pitch
  \*.if (\n(\(H=4u)\&(1m=20u) .ds -- \*(W\'h\'-12u\'(\*W\'h\'-8u\'-\') diablo 12 pitch
  \*.ds L" "
  \*.ds R" "
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IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
"For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents."
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@end enumerate

@end enumerated

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@heading How to Apply These Terms to Your New Programs

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

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
@end example

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
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General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

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

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

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

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

You should also get your employer (if you work as a programmer) or school,
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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c man end
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@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.)

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)


# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
string = filename + ':' + string
sys.stderr.write (string + '\n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt~obsolete.m4',
            'make install',
            'move-if-change',
            'shlibpath.m4',
            'symmlink-tree',
            'ylwrap',
        )
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
if filename in self.fossilised_files:
    return True

# Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
    return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9][?:-0-9\.,\s\+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            # 1: 'Copyright (C)', etc.
            '((C)opyright
             ((C)opyrights+/(C)\)]')
            '[(C)opyrights+\%s
             '[(C)opyrights+&copy;,
             '[(C)opyrights+copyright{}']
             'copyright = u\"'
             '@set%s+copyright\[w-+]')

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\\s*(?:' + ranges + ',\?)
             '\@value\[{\^\[}]*\})\s*')

            # 3: 'by ', if used
            '\(by\s+)')

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
`\(' + name + '\(\(?\As?\) + name + \')\)?\)`

# A regexp for notices that might have slipped by. Just matching # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of # HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', .
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: '
            + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname,
                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
        else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
if filename.endswith ('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove (pathname)
    except OSError:
        pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
  prev = None
  for line in file:
    next_line = None
    # Leave filtered-out lines alone.
    if not (line_filter and line_filter.match (line)):
      match = self.copyright_re.search (line)
      if match:
        res = self.update_copyright (dir, filename, filter,
                                     file, line, match)
        (this_changed, line, next_line) = res
        changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search (line):
      self.errors.report (pathname,
                          'unrecognised copyright: %s'
                          % line.strip())
      lines.append (line)
      line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
      tmp_pathname = pathname + '.tmp'
      with open (tmp_pathname, 'w') as file:
        for line in lines:
          file.write (line)
        if self.use_quilt:
          subprocess.call (['quilt', 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
  for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
      if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
      if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', "'quilt add' files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

        def skip_file (self, dir, filename):
            return
class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions = set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs = set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs = set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltldl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                    'libada',
                    'libatomic',
                    'libbacktrace',
                    'libcpp',
                    'libdecnumber',
                    'libgcc',
                    'libgfortran',
                    'libgomp',
                    'libitm',
                    'libmudflap',
                    'libobjc',
                    'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!--DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>License</title>
<meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" />
<meta name="keywords" content="ISO C++, library" />
<link rel="home" href="../index.html" title="The GNU C++ Library" />
<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
</head>
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Version 3.1, 31 March 2009

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@page
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define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java" 

namespace gnu
{
    namespace javax
    {
        namespace sound
        {
            class AudioSecurityManager$Permission;
        }
    }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
    public:
    static ::java::lang::Class class$;
};

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {

            Open Source Used In Ultra Services Platform Version 6.10
            11992
return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }

    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright &amp;#169; " + tags[i].text() + "</i></dt>");
            }
        }
        result.append("</dl>");
        return result.toString();
    }
    else {
        return null;
    }
}
SourceFileCopyrightTaglet.java!

"1-
7.;”,?C.G.K,O!"#QYSL"%+%+-WWWXY-.
/0A
*2Y+S4\n
7806)+=>+29<=+BYDN-EGW67+29< KYMO+29RURWG+YGW-[F`a7TbcA>`ade
/*/ Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 */
private String name;

/**
 * Create an instance with the specified name.
 */
public Permission(String name)
{
    this.name = name;
}
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);
/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);
/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.  
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * @param perm The permission to check for equality
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifdef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>

extern "Java"
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * name;
public:
    static ::java::lang::Class class$;
};

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class * class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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- analysis/common/src/java/net/sf/snowball
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- analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from http://snowball.tartarus.org/

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- analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt


The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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* Added override function for customized error handling.
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Files: debian/*
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On Debian systems, the complete text of the GNU General Public License
version 2 can be found in “/usr/share/common-licenses/GPL-2”.

1.247 libmount1 2.27.1 :6ubuntu3.8
1.247.1 Available under license :

PERPETUAL DATE CONVERTER FROM GREGORIAN TO POEE CALENDAR

SEASONS
1. Chaos -- Patron Apostle Hung Mung
2. Discord -- Patron Apostle Dr. Van Van Mojo
3. Confusion -- Patron Apostle Sri Syadasti
4. Bureaucracy -- Patron Apostle Zarathud
5. The Aftermath -- Patron Apostle the Elder Malaclypse

DAYS OF THE WEEK*
1. Sweetmorn
2. Boomtime
3. Pungenday
4. Prickle-Prickle
5. Setting Orange

*The DAYS OF THE WEEK are named from the five basic elements: SWEET, BOOM, PUNGENT, PRICKLE, and ORANGE.

HOLYDAYS
A. Apostle Holydays
   1. Mungday
   2. Mojoday
   3. Syaday
   4. Zaraday
   5. Maladay

B. Seasons Holydays
   1. Chaoflux
   2. Discoflux
   3. Confuflux
   4. Bureflux
   5. Afflux

Each occurs on the 5th day of the Season

C. Saint Tib's Day -- occurs once every four years (1 + 4 = 5) and is inserted between the 59th and 60th days of the Season of Chaos
hwclock and Debian:

When udev is running, hwclock -systz will be called when the RTC clock device is created. When udev is not running, hwclock --hctosys will be called during system startup.

In both cases, hwclock --set will be called during system shutdown.

To set the date/time of the system, just use the standard UNIX date facilities (such as date) or any of the advanced timekeeping utilities (ntp, ntpdate, chrony). Other methods of setting the clock (such as hwclock) are likely to cause trouble, do not use them.

Please note that because the shutdown scripts call hwclock --set, you cannot set the clock using hwclock only, as your adjustment will be lost on the next reboot. THIS MEANS YOU MUST *NOT* FOLLOW THE PROCEDURES IN THE hwclock(8) MAN PAGE TO SET THE CLOCK DATE/TIME USING A REBOOT UNLESS YOU EDIT THE SHUTDOWN SCRIPTS.

The full story:

A Linux system actually has two clocks:

- The System Clock, kept by the kernel. This is the clock that Linux uses for day-to-day activities, and this is also the clock you set using date.

- The Hardware Clock, also called RTC, which is used as a backup to keep time while the computer is turned off, or in APM suspended state. This is the clock you set using hwclock --set.
hwclock is used to copy time between these two clocks. For the Debian standard install, the system clock is initialized with the value of the hardware clock during startup, and the value of the system clock is copied back to the hardware clock during system shutdown/reboot.

So, in a Debian default install, you can keep the illusion that there's a single clock. Unless you use a program that modifies the hardware clock directly and does not set the system clock as well, that is.

Issues with hwclock --adjust:

hwclock has a facility to try to correct for systematic drift in the hardware clock, accessed by hwclock --adjust. This facility is *dangerous* because it has a severe drawback: it assumes that no program other than hwclock --systohc will ever be used to change the hardware clock.

This assumption is often false, as many common utilities such as ntp, chrony, as well as your computer's System Setup BIOS program, and any other OS you have in your machine will change the clock.

Also, if hwclock --adjust is used, one must make sure the drift file (/etc/adjtime) is deleted every time the system clock is set to a very different value (even if you're using hwclock itself to do it!), or the drift computation might become invalid and cause the hardware clock to be incorrectly set the next time hwclock --adjust is used.

hwclock currently does not perform any sort of sanity checks in the values it uses to compute the drift file, and will corrupt your clock time by potentially very large amounts if anything goes wrong.

Don't use the hwclock --adjust facility, refer to alternate (and much safer) programs such as ntp or chrony if you need precision timekeeping.

libblkid - a library to handle device identification and token extraction

Basic usage is as follows - there are two normal usage patterns:

For cases where a program wants information about multiple devices, or expects to be doing multiple token searches, the program should directly initialize cache file via (second parameter is cache filename, NULL = default):

blkid_cache cache = NULL;
if (blkid_get_cache(&cache, NULL) < 0)
/* error reading the cache file, not really fatal */

Note that if no cache file exists, an empty cache struct is still allocated. Usage of libblkid functions will use the cache to avoid needless device scans.

The model of the blkid cache is that each device has a number of attributes that can be associated with it. Currently the attributes which are supported (and set) by blkid are:

TYPE filesystem type
UUID filesystem uuid
LABEL filesystem label

How to use libblkid? Normally, you either want to find a device with a specific NAME=value token, or you want to output token(s) from a device. To find a device that matches a following attribute, you simply call the blkid_get_devname() function:

if ((devname = blkid_get_devname(cache, attribute_name, value))) {
  /* do something with devname */
  string_free(devname);
}

The cache parameter is optional; if it is NULL, then the blkid library will load the default blkid.tab cache file, and then release the cache before function call returns. The return value is an allocated string which holds the resulting device name (if it is found). If the value is NULL, then attribute_name is parsed as if it were "<attribute_name>=<value>"; if it cannot be so parsed, then the original attribute_name is returned in a copied allocated string.

This is a convenience to allow user programs to want to translate user input, whether it is of the form: "/dev/hda1", "LABEL=root", "UUID=082D-26E3", and get back a device name that it can use.

Alternatively, of course, the programmer can pass an attribute name of "LABEL", and value of "root", if that is more convenient.

Another common usage is to retrieve the value of a specific attribute for a particular device. This can be used to determine the filesystem type, or label, or uuid for a particular device:

if ((value = blkid_get_tag_value(cache, attribute_name, devname))) {
  /* do something with value */
  string_free(value);
}
If a program needs to call multiple blkid functions, then passing in a cache value of NULL is not recommended, since the /etc/blkid.tab file will be repeatedly parsed over and over again, with memory allocated and deallocated. To initialize the blkid cache, blkid_get_cache() function is used:

```
if (blkid_get_cache(&cache, NULL) < 0)
goto errout;
```

The second parameter of blkid_get_cache (if non-zero) is the alternate filename of the blkid cache file (where the default is /etc/blkid.tab). Normally, programs should just pass in NULL.

If you have called blkid_get_cache(), you should call blkid_put_cache() when you are done using the blkid library functions. This will save the cache to the blkid.tab file, if you have write access to the file. It will also free all associated devices and tags:

```
blkid_put_cache(cache);
```

The cal(1) date routines were written from scratch, basically from first principles. The algorithm for calculating the day of week from any Gregorian date was “reverse engineered”. This was necessary as most of the documented algorithms have to do with date calculations for other calendars (e.g. julian) and are only accurate when converted to gregorian within a narrow range of dates.

1 Jan 1 is a Saturday because that's what cal says and I couldn't change that even if I was dumb enough to try. From this we can easily calculate the day of week for any date. The algorithm for a zero based day of week:

```
calculate the number of days in all prior years (year-1)*365
add the number of leap years (days?) since year 1
(not including this year as that is covered later)
add the day number within the year
this compensates for the non-inclusive leap year calculation
if the day in question occurs before the gregorian reformation
(3 sep 1752 for our purposes), then simply return
(value so far - 1 + SATURDAY’s value of 6) modulo 7.
if the day in question occurs during the reformation (3 sep 1752 to 13 sep 1752 inclusive) return THURSDAY. This is my idea of what happened then. It does not matter much as this program never tries to find day of week for any day that is not the first of a month.
otherwise, after the reformation, use the same formula as the days before with the additional step of subtracting the number of days (11) that were adjusted out of the calendar
```
just before taking the modulo.

It must be noted that the number of leap years calculation is sensitive to the date for which the leap year is being calculated. A year that occurs before the reformation is determined to be a leap year if its modulo of 4 equals zero. But after the reformation, a year is only a leap year if its modulo of 4 equals zero and its modulo of 100 does not. Of course, there is an exception for these century years. If the modulo of 400 equals zero, then the year is a leap year anyway. This is, in fact, what the gregorian reformation was all about (a bit of error in the old algorithm that caused the calendar to be inaccurate.)

Once we have the day in year for the first of the month in question, the rest is trivial.

Notes for util-linux developers
~~~~~~~~~~~~~~

AUTOTOOLS:

* "./autogen.sh" generates all files needed to compile and install the code (run it after checkout from git)

* "make distclean" removes all unnecessary files, but the code can still be recompiled with "/configure; make"

* "make dist-gzip" (or -bzip2) creates a tarball that can be configured and compiled without running "/autogen.sh"

PATCHES:

* send your patches to the mailing list or to the upstream maintainer (see the AUTHORS and README files)

* diff -u

* don't include generated (autotools) stuff to your patches (hint: use git-clean [-X])

* patches are delivered via email only. Downloading them from internet servers is a pain.

* one patch per email, with the changelog in the body of the email.

* many small patches are favoured over one big. Break down is done on basis of logical functionality; for example #endif mark ups, compiler warning and exit codes fixes all should be individual small patches.
* Subject: [PATCH] subsystem: description

* if someone else wrote the patch, they should be credited (and blamed) for it. To communicate this, add a line:

   From: John Doe <jdoe@wherever.com>

* add a Signed-off-by line (hint: use "git commit -s")

The sign-off is a simple line at the end of the explanation for the patch, which certifies that you wrote it or otherwise have the right to pass it on as a open-source patch. The rules are pretty simple: if you can certify the below:

   By making a contribution to this project, I certify that:

   (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

   (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

   (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

   (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

then you just add a line saying

   Signed-off-by: Random J Developer <random@developer.example.org>

using your real name (sorry, no pseudonyms or anonymous contributions.)

* for more details see:

   The perfect patch
CODING STYLE:

* the preferred coding style is based on the linux kernel Documentation/CodingStyle. For more details see:

http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=blob_plain;f=Documentation/CodingStyle

SCM (source code management):

git clone git://git.kernel.org/pub/scm/utils/util-linux/util-linux.git util-linux

* maintenance (stable) branch
  - created for every <major>.<minor> release
  - branch name: stable/v<major>.<minor>

* bugfix branch
  - created for <major>.<minor>.<maint> release for critical/security bugs only
  - this branch is optional
  - branch name: stable/v<major>.<minor>.<maint>

* master branch
  - the status of this branch is: "it works for me". It means useful but not well tested patches.
  - it's source for occasional snapshots
  - for long-term development or invasive changes should be an active development forked into a separate branch (topic branches) from the tip of "master".

* A new tag object is created for:
  - every release, tag name: v<version>

* KNOWN BUGS:
  - tag v2.13.1 is typo. Please, ignore this tag.

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Disk identifier: <removed>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>&lt;removed&gt;2</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096 6144  2049   1M 4.2BSD       0     0   0
b  4096 20479 16384  8M unused       0     0   0
c  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

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 *
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Version 2.1, February 1999

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That's all there is to it!
README for init/getty/login, by poe@daimi.aau.dk

This package contains simpleinit, agetty, and login programs for Linux. Additional utilities included are: hostname, who, write, wall, users domainname, hostid, cage and mesg.

Most of this software has been contributed by others, I basically just ported the things to Linux.

About installation: See the bottom of this file. Check the Makefile! Be sure you know what you are doing! You may well be able to lock yourself out from your machine. Especially: The init provided here (simpleinit) is NOT a SYSV compatible init and the inittab format is different.

If you are uncertain whether you got the latest version, check out
ftp://ftp.daimi.aau.dk/pub/linux/poe/

Version 1.49 (20-Jun-97)
Small patches for new util-linux distribution and glibc compat.
PAM support in login.c by Erik Troan.

Version 1.48 (6-Jun-97)
Now changes mode and owner of /dev/vcs devices for console logins.
After idea by Andries Brouwer.

Version 1.47 (2-Apr-97)
Got new version of hostid.c and hostid.1 from Sander van Malssen <svm@kozmix.ow.nl>.
Removed premature endentent() call in login.c, simpleinit.c and agetty.c to be compatible with the changed semantics of gnu libc2.
Fix by Jesse Thilo <Jesse.Thilo@pobox.com>.

Version 1.46 (28-Jan-97)
Several security fixes for login by David Holland (buffer overruns)
<dholland@hcs.harvard.edu>
Fixed write.c, to handle a terminating period correctly.
Re-indented login.c, it was getting too messy.

Version 1.45a (16-Dec-96)
Better support in login for shadow passwords. Compile with
-DShadow_PWD if you have <shadow.h>. This is on by default.
By Marek Michalkiewicz <marekm@i17linuxb.ist.pwr.wroc.pl>.
Changed the wtmp locking scheme in login.c,agetty.c,simpleinit.c
to flock() /etc/wtmplock instead of the wtmp file directly.
This avoids a denial of service attack.
Some support for the RB-1 Cryptocard token for challenge/response
authentication. This needs a DES library, either Eric Young's
libdes, or the Koontz implementation, see cryptocard.c.
Initial support patch by Randolph Bentson,
<bentson@grieg.seaslug.org>
Changed getpass() to use fputs() instead of fprintf().

Version 1.44 (13-Nov-96):
Made isapty() in checktty.c more resilient to 2.0 systems
that haven't re-MAKEDEV'ed their pty devices.

Version 1.43 (8-Nov-96):
Fix to checktty.c: PTY's are numbered differently after 1.3,
blush! Fix by Gerhard Schneider <gs@ilfb.tuwien.ac.at>

Version 1.42c (6-Nov-96):
Small fix by Gabriel M. Schuyler <schuyler@easiest.com>, to get
better syslog messages (1 LOGIN FAILURE instead of 2 LOGIN FAILURES).
Patch butchered by me.

Version 1.42b (30-Sep-96):
Got patch for checktty.c from Christoph Lameter
<clameter@miriam.fuller.edu> so it doesn't traverse the groupfile
"manually" but uses the getgroups() call, this is more efficient
with large groupfiles and NIS/YP.

Version 1.42a (24-Sep-96):
Added extra syslog() call to login.c to log all good logins.
Patch from Steve Philp.

Version 1.41 (20-Jul-96):
Added security fix to checktty.c by JDS to clear certain lists.
Patches butchered and ANSI'fied by me.
Added -n option to agetty to avoid the login prompt.

Version 1.40a (29-Dec-95):
Added -f <issue_file> option to agetty. Patches from Eric Rasmussen <ear@usfirst.org>, but somewhat butchered by me.

Lots of testing and bugfixes in agetty. Now the modem init stuff should finally work (for me). Also wrote modem.agetty as an example on how to use agetty with a modem.
Agetty now also supports baud rates of 38400, 57600, 115200 and 230400 bps.

Version 1.37 (15-Sep-95):
Added -I <initstring> and -w options to agetty.c for those that use agetty with modems.

Version 1.36 (25-Aug-95):
Enhanced /etc/usertty features with group support. Moved this part of login.c to checktty.c. One can now define classes of hosts and ttys and do access checking based on unix-group membership. See login.1. Also time ranges for logins can be specified, for example writing the line


saying that during working hours, Joe may rlogin from the host barracuda, whereas outside working hours and in weekends Joe may rlogin from his networked PC at home.

login.c: failures was not properly initialized, it now is. Also made sure ALL failures are really logged to syslog.

Version 1.35 (7-Aug-95):
login.c: Much improved features for the usertty file, allows access control based on both hostnames/addresses and line. See the about.usertty file and the man-page.

Fixed agetty so it doesn't fiddle with the ut_id field in the utmp record, this should prevent growing utmps on systems with more than 10 login lines. Fix suggested and checked by Alan Wendt <alan@ezlink.com> in his agetty.1.9.1a.

Agetty now installs as agetty again, not as getty.
Updated man-page for login(1) to document /etc/usertty changes.
This has been tested on Linux 1.2.5 with GCC 2.5.8 and libc 4.5.26.

Version 1.33a (20-Jun-95):
rchatif@cavern.nmsu.edu ("rc.") suggested that I should remove the #ifndef linux around the special logging of dial-up logins. This is now done, so each login via a serial port generates a separate DIALUP syslog entry.

Version 1.33 (5-Jun-95):
Patch by Ron Sommeling <sommel@sci.kun.nl> and jlaiko@ichaos.nullnet.fi (Juha Laiho) for agetty.c, used to return a pointer to an automatic variable in get_logname().
Many patches from or via Rickard Faith <faith@cs.unc.edu>, fixing man-pages etc, now defaults to using /var/log/wtmp and /var/run/utmp according to the new FSSTND.

Fix in login.c for CPU eating bug when a remote telnet client dies while logging in.

This is for Linux 1.2, GCC 2.6.2 or later.

Version 1.32b (12-Mar-95):
Login now sets the tty group to "tty" instead of "other". Depending on compile-time define USE_TTY_GROUP the tty mode is set to 0620 or 0600 instead of 0622. All as per suggestion by Rik Faith and the linux-security list.
Write/wall now strips control chars except BEL (\007). Again after suggestion by Rik Faith.

Version 1.32a
Urgent security patch from Alvaro M. Echevarria incorporated into login.c. This is really needed on machines running YP until the libraries are fixed.

Version 1.32
Login now logs the ip-address of the connecting host to utmp as it should.

Version 1.31b (2-Feb-95):
Daniel Quinlan <quinlan@yggdrasil.com> and Ross Biro <biro@yggdrasil.com> suggested a patch to login.c that allows for shell scripts in the shell field of /etc/passwd, so one can now have (as a line in /etc/passwd):
bye::1000:1000:Outlogger:/bin:echo Bye
Logging in as "bye" with no password simply echoes Bye on the screen.
This has applications for pppd/slip.
Version 1.31a (28-Oct-94):
Scott Telford provided a patch for simpleinit, so executing reboot from singleuser mode won't partially execute /etc/rc before the reboot.

Version 1.30 (17-Sep-94):
tobias@server.et-inf.fho-emden.de (Peter Tobias) has made a more advanced hostname command that understands some options such as -f for FQDN etc. I'll not duplicate his work. Use his hostname package if you wish.

svm@kozmix.xs4all.nl (Sander van Malssen) provided more features for the /etc/issue file in agetty. \U and \u now expand to the number of current users.

It is now possible to state the value of TERM on the agetty command line. This was also provided by Sander.

This has been built under Linux 1.1.42 with gcc 2.5.8 and libc 4.5.26.

Version 1.29 (18-Aug-94):
Finally got around to making a real version after the numerous alpha versions of 1.28. Scott Telford <st@epcc.ed.ac.uk> provided a patch for write(1) to make it look more like BSD write.

Fixed login so that the .hushlogin feature works even with real protective users mounted via NFS (ie. where root can't access the user's .hushlogin file).

Cleaned up the code to make -Wall bearable.

Version 1.28c (21-Jul-94):
Rik Faith reminded me that agetty should use the syslog facility. It now does.

Version 1.28b (30-May-94):
On suggestion from Jeremy Fitzhardinge <jeremy@suite.sw.oz.au>
I added -- as option delimiter on args passed from agetty to login. Fixes -froot hole for other login programs. The login program in this package never had that hole.

Version 1.28a (16-May-94):
bill@goshawk.lanl.gov provided a couple of patches, one fixing terminal setup in agetty, and reboot is now supposed to be in /sbin according to FSSTND.

Version 1.27 (10-May-94):
Changed login.c, so all bad login attempts are logged, and added
usertty security feature. See about.usertty for an explanation.
There's no longer a limit of 20 chars in the TERM environment
variable. Suggested by Nicolai Langfeldt <janl@math.uio.no>

Added #ifdef HAVE_QUOTA around quota checks. Enable them if
you have quota stuff in your libraries and kernel.
Also re-enabled set/getpriority() calls as we now have them,
and have had for a long time...

Now wtmp is locked and unlocked around writes to avoid mangling.
Due to Jaakko Hyvät <HYVATTI@cc.helsinki.fi>.

Wrt. agetty: A \ in /etc/issue now inserts the domainname, as
set by domainname(1). Sander van Malssen provided this.
This is being used under Linux 1.1.9

Beefed up the agetty.8 man-page to describe the /etc/issue
options. Added man-pages for wall, cage, who.

Version 1.26 alpha (25-Apr-94):
Added patch from Bill Reynolds <bill@goshawk.lanl.gov> to
simpleinit, so it will drop into single user if /etc/rc
fails, eg. from fsck.

Version 1.25 (9-Feb-94):
Agetty should now work with the Linux 0.99pl15a kernel.
ECHOCTL and ECHOPRT are no longer set in the termios struct.
Also made agetty accept both "tty baudrate" and "baudrate tty"
arguments.

Version 1.24 (23-Jan-94): changes since 1.22
Christian von Roques <roques@juliet.ka.sub.org> provided a patch
that cleans up the handling of the -L option on agetty.
Rik Faith <faith@cs.unc.edu> enhanced several man-pages...

Version 1.23 (11-Dec-93): changes since 1.21
Mitchum DSouza provided the hostid(1) code. It needs libc 4.4.4 or
later and a Linux 0.99.14 kernel or later. It can set and print
the world unique hostid of the machine. This may be used in
connection with commercial software licenses. God forbid!
I added the -v option, and munged the code a bit, so don't blame
Mitch if you don't like it.

I made the "cage" program. Using this as a shell in the passwd
file, enables one to let users log into a chroot'ed environment.
For those that have modem logins and are concerned about security.
Read the source for further info.
"who am i" now works.

The login program works with Yellow Pages (aka NIS) simply by linking with an appropriate library containing a proper version of getpwnam() and friends.

Version 1.21 (30-Oct-93): changes since 1.20
In simpleinit.c: The boottime wtmp record is now written *after* /etc/rc is run, to put a correct timestamp on it.
Daniel Thumim <dthumim@mit.edu> suggested this fix.

The source and Makefile is prepared for optional installation of binaries in /sbin instead of /etc, and logfiles in /usr/adm instead of /etc. See and change the Makefile to suit your preferences.
Rik Faith and Stephen Tweedie inspired this change.

Version 1.20 (30-Jul-93): changes since 1.17:
Versions 1.18 and 1.19 were never made publically available.
Agetty now supports a -L switch that makes it force the CLOCAL flag. This is useful if you have a local terminal attached with a partly wired serial cable that does not pass on the Carrier Detect signal.

There's a domainname program like the hostname program; contributed by Lars Wirzenius.

Simpleinit will now write a REBOOT record to wtmp on boot up. Timezone support is now optional in simpleinit. Both of these patches were made by Scott Telford <st@epcc.ed.ac.uk>.

This is for Linux 0.99.11 or later.

Version 1.17 (19-May-93): changes since 1.16:
Login, simpleinit and write should now work with shadow passwords too. See the Makefile. Thanks to Anders Buch who let me have an account on his SLS based Linux box on the Internet, so I could test this. I should also thank jmorriso@rflab.ee.ubc.ca (John Paul Morrison) who sent me the shadow patch to login.c

Version 1.16 (24-Apr-93): changes since 1.15a:
Simpleinit now clears the utmp entry associated with the pid's that it reaps if there is one. A few are still using simpleinit and this was a popular demand. It also appends an entry to wtmp

Version 1.15a (15-Mar-93): changes since 1.13a:
junio@shadow.twinsun.com (Jun Hamano) sent me a one-line fix for occasional mangled issue-output from agetty.

Version 1.13a (2-Mar-93): changes since 1.12a:
With the new LILO (0.9), there are more than one possible arg to init, so Werner Almesberger <almesber@bernina.ethz.ch> suggested that a loop over argv[] was made in boot_single() in simpleinit.c

Version 1.12a (24-Feb-93): changes since 1.11:
This is for Linux 0.99.6 or later. Built with gcc 2.3.3 and libc4.2
jrs@world.std.com (Rick Sladkey) told me that the setenv("TZ"...) in login.c did more harm than good, so I commented it out.

Version 1.11a (16-Feb-93): changes since 1.9a:
This is for Linux 0.99.5 or later.
Anthony Rumble <arumble@extro.ucc.su.OZ.AU> made me aware that the patches for vhangup() from Steven S. Dick didn't quite work, so I changed it.

Linus Torvalds provided another patch relating to vhangup, since in newer Linuxen vhangup() doesn't really close all files, so we can't just open the tty's again.

Version 1.9a (18-Jan-93): changes since 1.8a:
Rick Faith sent me man-pages for most of the utilities in this package. They are now included.

Steven S. Dick <ssd@nevets.oau.org> sent me a patch for login.c so DTR won't drop during vhangup() on a modemline.

This is completely untested!! I haven't even had the time to compile it yet.

Version 1.8a (13-Dec-92): changes since 1.7:
This is for Linux 0.98.6 or later. Compiles with gcc2.2.2d7 and libc4.1

Bettered write/wall after fix from I forget who. Now wall can have commandline args.

Fixed bug in who.c

Patched simpleinit.c with patch from Ed Carp, so it sets the timezone from /etc/TZ. Should probably by be /etc/timezone.

Sander Van Malssen <sander@kozmix.hacktic.nl> provided a patch for getty, so it can understand certain escapecodes in /etc/issue.

I hacked up a very simple substitute for a syslog() call, to try out the logging. If you have a real syslog() and syslogd then use that!

The special vhangup.c file is out, it's in the official libc by now.
(and even in the libc that I have :-)

who, and write are now deprecated, get the better ones from one of the GNU packages, shellutils I think.

Some people think that the simple init provided in this package is too spartan, if you think the same, then get the SYSV compatible init from Miquel van Smoorenburg <miquels@maestro.htsa.aha.nl>
Simpleinit will probably be deprecated in the future.

Version 1.7: 26-Oct-92 changes since 1.6:
This is for Linux 0.97PL4 or later.

Thanks to Werner Almesberger, init now has support for a singleuser mode.

Login now supports the -h <hostname> option, used in connection with TCP/IP. (rlogin/telnet)

Getty writes an entry to /etc/wtmp when started, so last won't report "still logged in" for tty's that have not been logged into since the last user of that tty logged out. This patch was inspired by Mitchum DSouza. To gain the full benefit of this, get the newest last from the admutils-1.4.tar.Z package or later.

Version 1.6 (29-Aug-92): changes since 1.5:
This is for Linux 0.97P1+ or later.

Login now uses the newly implemented vhangup() sys-call, to prevent snooping on the tty.
An alternative getpass() function is now provided with login, because I was told that the old one in libc didn't work with telnet and or rlogin. I don't have a network or a kernel with TCP/IP so I haven't tested the new one with telnet, but it is derived from BSD sources that are supposed to work with networking.

Version 1.5 (12-Aug-92): changes since 1.4
This is for Linux 0.97 or later, and has been built with gcc2.2.2

This release just puts in a few bugfixes in login.c and simpleinit.c

Version 1.4 (4-Jul-92): changes since 1.3:
This is for Linux 0.96b, and has been built and tested with gcc 2.2.2.

Init now handles the SIGINT signal. When init gets a SIGINT it will call /usr/bin/reboot and thereby gently reboot the machine. This makes sense because after Linux 0.96B-PL1 the key-combination Ctrl-Alt-Del may send a SIGINT to init instead of booting the
machine the hard way without syncing or anything.

You may want to get the admutils-1.1 package which includes a program that will instruct the kernel to use the "gentle-reboot" procedure.

Version 1.3 (14-Jun-92): changes since 1.2:
This is for Linux 0.96A.

The ioctl(TIOCSWINSZ) has been removed from login.c because it now works :-)..

login.c now supports a lastlog database.

Several programs and pieces of source that were included in the 1.2 package has been *removed* as they are incorporated into the new libc. Other omitted parts such as last(1) has been replaced by better versions, and can be found in the admutils package.

Agetty is now called getty and will be placed in /etc.

A few changes has been made to make it possible to compile the stuff with GCC 2.x.

Version 1.2 (28-Feb-92): changes since 1.1:
This is for Linux 0.12.

A couple of problems with simpleinit.c has been solved, thanks to Humberto Zuazaga. So now init groks comments in /etc/inittab, and handles the HUP and TSTP signals properly.

I added two small scripts to the distribution: users and mesg.

TERM is now carried through from /etc/inittab all the way to the shell. Console tty's are special-cased, so the termcap entry in /etc/inittab is overridden by the setting given at boot-time. This requires a different patch to the kernel than that distributed with version 1.1

Login no more sends superfluous chars from a password to the shell. It also properly prints a NL after the password.

Agetty didn't set the erase character properly, it does now.

A few extra defines has been added to utmp.h

Several netters helped discover the bugs in 1.1. Thanks to them all.
Version 1.1 (released 19-Feb-92): Changes since 1.0:
A bug in simpleinit.c has been fixed, thanks to Pietro Castelli.
The definition of the ut_line field has been changed to track the
USG standard more closely, we now strip "/dev/" off the front.
Thanks to: Douglas E. Quale and Stephen Gallimore.

I have added a getlogin.c library routine, and a write(1) command.
I removed the qpl-init stuff. If people want to use it, they should
get it from the source. I don't want to hack on it anymore.

A couple of people reported problems with getty having problems
with serial terminals. That was correct. I borrowed a null-modem
from Tommy Thorn, and now the problems should be fixed. It seems
that there is kept a lot of garbage in the serial buffers, flush
them and it works like a charm. Getty does an ioctl(0, TCFLSH, 2)
for this.

The write.c code now doubles as code for a wall(1) program.

Description of the various files:

login.c The login program. This is a portation of BSD login, first
to HP-UX 8.0 by Michael Glad (glad@daimi.aau.dk), and
to Linux (initially to 0.12) by me.

who.c A simple who(1) util. to list utmp. Done by me.
You may prefer the GNU who util. with more options
and features.

hostname.c A hostname(1) command to get and set the hostname. I did
this too.

domainname.c Like hostname, only reads out or sets the domainname.

agetty.c The getty program. From comp.sources.misc, by W.Z. Venema.
Hacked a bit by me.

simpleinit.c A simple init program, written by me. Uses /etc/inittab

A "kill -HUP" to init makes it re-read /etc/inittab.
A "kill -TSTP" to init makes it stop spawning gettys on the
ttys. A second "kill -TSTP" starts it again.
A kill -INT to init makes it attempt a reboot of the machine.
this works in connection with kernel support for softboot
when Ctrl-Alt-Del is pressed.

Init will start up in singleuser mode if /etc/singleboot
exists at boottime, or if it is given an argument of "single"
via eg. LILO. If /etc/securesingle exists it will ask for the root password before starting single user.

write.c: A write(1) command, used to pass messages between users at different terminals. This code doubles as code for a wall(1) command. Make a symlink: /usr/bin/wall -> /usr/bin/write for this.

mesg: A tiny shellscript, so you can avoid that other people write to your shell.

users: Another script that uses awk(1) and tr(1) to process the output from who(1) into a one-liner. If you don't have awk, but have Perl, this does the same:

    who | perl -ane 'print "$F[0] "'; echo ""

pathnames.h:
Header.

param.h
Header, extended with getdtablesize() macro, should go in /usr/include/sys

Building.
---------
A "make all" should do. At least it does for me.

Installation:
-------------
login should go in /bin, if you don't like this change pathnames.h and recompile at least agetty.

getty, init: Put them in SBINDIR

who, hostname, write, wall, mesg, users:
/usr/bin

securetty: login needs this in /etc, defines which ttys that root can login on. This should *never* include ttys{1,2}

inittab: the simpleinit code needs this in /etc. Note that the syntax of /etc/inittab has little to do with the syntax of a real SysV inittab. Edit this one for your local setup.

shells: The chsh program will use this if it's placed in /etc. It defines the valid shell-programs. Have one abs. path on
You can also do a "make install" as root, but don't just do it because I say so, check the Makefile first.

"Make install" will install only the new binaries, and not motd, inittab, securetty and issue. To install these configuration files, do a "make Install".

Getty requires a /dev/console to write errors to. I just made it a symlink to /dev/tty1. Because of a bug in the tty driver this errorlogging may cause the shell on tty1 to logout.

 Getty will print the contents of /etc/issue if it's present before asking for username. Login will print the contents of /etc/motd after successful login. Login doesn't print /etc/motd, and doesn't check for mail if ~/.hushlogin is present and world readable.

If /etc/nologin is present then login will print its contents and disallow any logins except root.
It might be a good idea to have a "rm -f /etc/nologin" line in one's /etc/rc file.

If /etc/securetty is present it defines which tty's that root can login on.

- Peter (poe@daimi.aau.dk)
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Upstream-Name: util-linux
Upstream-Contact: util-linux@vger.kernel.org
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    term-utils/mesg.c
    term-utils/script.c
    term-utils/ttymsg.c
    term-utils/wall.c
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A typical disk consists physically of one or more circular objects called "platters", which rotate about a central axis. Devices called "heads" move to specified places on the disk surface to read or write information. There is usually one head on each side of every platter, and all these heads are attached to a comb-like controller arm which moves all of them at the same time, either closer to the centre of the disk, or closer to the outer edge.

Suppose the arm is in one position, putting an area of the disk surface within reach of one or another of the heads. This total area, everything that is accessible without moving the arm, is called a "cylinder". (A cylinder is a barrel-shaped cross section of a disk, consisting of a circular strip from each side of each platter.) The part of a cylinder that one head can read or write without moving is called a "track".

Each track is divided into several pie-shaped slices called "sectors", which are the smallest parts of the disk which can be read or written at a time. The sectors on one disk are usually all the same size.

In fact, there are not always two heads to every platter, there are some disks which do not have the same amount of data in every cylinder, and there may be disks which do not have the same amount of data in every sector. These features are usually hidden on PCs by the
The numbers which describe the "geometry" of a disk are

1. The number of cylinders it contains.
2. The number of tracks per cylinder, which is the number of heads.
3. The number of sectors per track.
4. The number of bytes per sector.

These numbers vary from disk to disk, but a typical PC disk might have about 1000 cylinders, half a dozen heads, and 15 or 20 sectors per track, with each sector containing 512 bytes or characters; such a disk contains 40 to 60 megabytes of data. A "double density" floppy disk contains 40 cylinders, with 2 heads (2 tracks per cylinder), and with 9 sectors per track; such a disk contains 360 kilobytes, or 360 * 1024 characters. A "high density" 3.5 inch floppy contains 80 cylinders, with 2 heads and 18 sectors per track, or 1.44 megabytes, or 1440 * 1024 characters.

The exact size of a track or cylinder in bytes varies from one disk to another. This `fdisk' for Linux deals mainly with cylinders, since this is the best unit to use when allocating space for partitions. It reports partition sizes in "blocks" of 1024 bytes, or 2 sectors, since `mkswap' and the various `mkfs' programs require this number. A block is the smallest amount of space which can be set aside for a file in the current file systems.

An operating system, such as Linux or DOS or OS/2, may use a disk in any way that it wishes, but if two operating systems share the same disk, they must agree on who owns what, or else one will interfere with the other (that is, by damaging the other's files). A "partition" is a section of a hard disk which is handled as a unit by all operating systems which can access the disk. The standard way to define partitions (for the moment) is the "partition table", a list of information which is stored in parts of the disk that don't belong to any of the systems using the disk. The beginning of the partition table is stored in the disk's primary boot sector, and the rest is stored in a chain of sectors scattered throughout the disk.

The first sector on the disk is called the "primary boot block" or "primary boot sector" because (1) it comes first, before other, similar sectors; (2) it tells where the other, similar sectors are found, so that it is logically 'prior' to them; and (3) it usually contains code
which is executed when the system boots up. This sector contains a table describing at most four partitions. These areas are called "primary partitions".

The partition table in the primary boot sector may also describe at most one "extended partition". This is a large area of the disk, usually containing all the space which is not in any primary partition. Within this space we can set aside other areas which are called "logical partitions", because they look almost exactly like primary partitions. In fact, the main difference between them is that we can boot from primary partitions, while we cannot boot from logical partitions. This happens because the address of a primary partition is in a fixed place, whereas the address of a secondary partition is not, so we require a more complicated process to discover it, one which is too difficult for most primary boot programs.

Dividing up your disk
---------------------

It is a good idea to plan ahead before you start creating partitions on your disk. If you set aside a partition for some purpose, it is not easy to change its size: you must backup all the data from the partition, whether to floppies, to another partition, to another hard disk, or somewhere else; then you must edit the table which describes this partition, so changing its size; then you must reboot and initialise the new partition, formatting it, for example, under DOS, or running `mkfs` under Linux; finally you can copy all the data back. It is possible, if you have several partitions, to copy data back and forth between them while you change their sizes, but this is a bit risky and time consuming. It is better to plan ahead what you will need, since it is hard to change it afterwards.

Many people with large disks and recent versions of DOS have their entire file system on one large partition. They usually ask, "Isn't there any way I can reformat my disk without copying everything off?" There is no way to do it using standard DOS utilities, and there is no truly safe way to do it using commercial software, because, if you make a mistake, you will lose the entire contents of your disk. If you are going to back up your disk anyway, you might as well copy the data back safely. The Linux FAQ contains references to tools and procedures which will allow you to do this, if you dare.

DOS and Linux both allow you to access several partitions on a single disk; on DOS these are treated as if they were separate disks or drives, and under Linux they are treated as different "devices".

You can have up to 64 partitions on a single IDE disk, or up to 16
partitions on a single SCSI disk, at least as far as Linux is concerned; in practice you will rarely want so many. The maximum size of a Linux file system on a single partition depends on the type of file system you use. Minix file systems are limited to 64 megabytes. You may have all of your Linux files in a single partition, or you may have two, three, or more Linux file systems. Similarly you may have one or more DOS partitions. If you have several small partitions, you run much less risk of losing all your files if your disk gets corrupted. On the other hand, you may run out of space on a small partition more easily.

Under DOS, you must refer to each partition by a separate drive letter, but all partitions are automatically accessible. Under Linux only the root partition is automatically accessible, but once we mount another partition, it is indistinguishable from the rest of the file system. Disks are usually mounted by a command in one of the system startup files, `/etc/rc', so you need not worry about having to do it yourself whenever you boot the system. But even ordinary users may be allowed to mount removable hard disks and floppy disks.

Linux requires at least one partition, which is the `root' of the file system. You may prefer to have a separate partition for `/usr', which contains most of the executable files, or for `/home', which contains most of your private files. You may also wish to set aside a partition to use for swap space, depending on the amount of memory your PC has. You will certainly need swap space if you have less than 4 MB of RAM and wish to compile anything substantial. You can reserve swap space in a file, but you need a partition big enough to hold it, and this will probably be less efficient than having a partition devoted to swap.

The disk space you need for Linux is discussed in README.prepare.

Are you going to boot Linux from the hard disk, or will you boot from a floppy? Some boot programs place severe restrictions on where the boot partition can be. LILO is more relaxed about this, but does require either the Master Boot Record on your first hard disk, or the boot record on one of the first four partitions on your first hard disk.

If you have an extended partition with logical partitions in it, you can have only three primary partitions containing data.

The `fdisk' command
-------------------

Every operating system, whether DOS, OS/2, or Linux, should provide its own utility for editing hard disk partition tables. At least four
of these utilities have been called `fdisk', for `Fixed DISK setup program', where `fixed' means `not removable'. I believe the first PC program named `fdisk' came from Microsoft in about 1985; before that time disks were too small to divide into separate sections.

Every operating system has its own peculiarities. Normally you should set up a partition for the use of one operating system by using its own `fdisk' program. Do not use the Linux `fdisk' to create partitions for DOS or for any system other than Linux; otherwise you may have problems.

An `fdisk' program performs two functions: it reports how the disk is configured, and it changes that configuration by adding or deleting partitions. Most `fdisk' programs can also change other information in partition tables.

This `fdisk' for Linux operates on one hard disk at a time. If you give the command

    fdisk

it reports on, and is able to change, `/dev/hda', the first hard disk. (If you have no `/dev/hda', `fdisk' uses `/dev/sda' as the default device.) To look at or change the second hard disk, `/dev/hdb', give the command

    fdisk /dev/hdb

To look at or change the first SCSI disk, give the command

    fdisk /dev/sda

There are some special forms of the `fdisk' command. One of them, suggested by Jim Winstead, simply lists all partitions on all available disks:

    fdisk -l     (where `l' is a letter, not the digit `1')

The option `-v' is provided to list the current version of the `fdisk' command. Finally, there is an option `-s' which is not really intended for interactive use. It causes fdisk to print the size of a partition in blocks of 1024 bytes as follows:

    fdisk -s /dev/hda7
    39934

Because this is intended to be used by `mkfs' and `mkswap' programs, it does not return the size of extended partitions or of partitions.
whose system type code is less than 10 (hexadecimal a). If you start
`fdisk' without using one of these special options, it responds by
asking for a command:

Command (m for help): _

Each `fdisk' command consists of a single letter, which must be
followed by <RETURN> before it is obeyed. Upper and lower case are not
distinguished. Anything you type after the first character is ignored.

Give the command `m', and you should see this menu:

Command action
  a   toggle a bootable flag
  d   delete a partition
  l   list known partition types
  m   print this menu
  n   add a new partition
  p   print the partition table
  q   quit without saving changes
  t   change a partition's system id
  u   change display/entry units
  v   verify the partition table
  w   write table to disk and exit
  x   extra functionality (experts only)

Command (m for help): _

The simplest commands are Print, Verify, and Quit. On a small disk, the
Print command might produce a display like this one:

     Disk /dev/hda: 5 heads, 17 sectors, 977 cylinders
     Units = cylinders of 85 * 512 bytes

     Device  Boot  Start  End   Blocks   Id  System
     /dev/hda1  *    1     1     236  10021+  1  DOS 12-bit FAT
     /dev/hda2  837   837    977    5992+  5  Extended
     /dev/hda3  *  237    237    836  25500   83 Linux native
     /dev/hda5  837   837    936  4249+   82 Linux swap
     /dev/hda6  942   942    977  1522+   1  DOS 12-bit FAT

There are 5 partitions reported; `/dev/hda4' does not appear because
it is not allocated. Partitions 1 and 3 are flagged as bootable. The
size of each partition is reported in 1 kilobyte blocks; hence the
primary Linux partition, partition 3, is 25 1/2 megabytes in size. The
`+' after three of the sizes warns that these partitions contain an odd
number of sectors: Linux normally allocates filesystem in 1 kilobyte
blocks, so the extra sector in partition 5 is wasted. Id numbers are
reported in hexadecimal and explained in English.
The display/entry units may be either cylinders or sectors. The default is cylinders, but changing the units makes the print command display the following table for the system reported above:

```
Disk /dev/hda: 5 heads, 17 sectors, 977 cylinders
Units = sectors of 1 * 512 bytes
```

```
Device  Boot  Start  End   Blocks   Id  System
/dev/hda1 * 1  17  20059  10021+ 1  DOS 12-bit FAT
/dev/hda2  71060 71060 71060  5992+ 5  Extended
/dev/hda3   71061 71061 71061  25500   83 Linux native
/dev/hda5  79985 80001 79985  4249+ 82 Linux swap
/dev/hda6   71061 71061 71061  83044    1  DOS 12-bit FAT
```

The start of data in both DOS partitions is 16 sectors after the beginning of the partition: this is one reason why you should use DOS's own `FDISK' to create DOS partitions. Changing the units to sectors also affects the way in which the new partition command asks for the beginning and end of a new partition.

*Warning*: it is dangerous to create a new partition when the display/entry units are sectors.

The Verify command is useful because

1. It warns you if anything is wrong. *Always* do a Verify command to check your work before writing any changes to disk.

2. It reports how many unallocated sectors there are on the disk.

The Quit command is also useful. `fdisk' does not actually change any data on your disk unless you give a Write command. If you are unhappy about any changes you may have made, give the Quit command, and your disk will remain as it was before you ran `fdisk'. You can also interrupt `fdisk' with `CTRL-C'.

Deleting and adding partitions
---------------------------------

Deleting a partition is simple. Give the Delete command by typing `d'. `fdisk' asks:

```
Partition number (1-6): _
```

Once you get this far, you must either delete a partition or interrupt the program with `CTRL-C' (or whatever your current interrupt character is). Note:
1. You may delete a nonexistent partition. You will get a warning message.

2. You may delete an extended partition. This has the side effect of deleting all partitions greater than or equal to 5.

3. You may delete a logical partition. In that case, all partitions above it are renumbered at once. For example, if you delete partition 5, then partition 6 becomes known as partition 5, and partition 7 as partition 6.

Adding a partition is just a bit more complicated. Give the New command by typing `n'. `fdisk' allows you to

1. Create a primary partition, if there is a free slot in the primary partition table.

2. Create an extended partition if there is a free slot in the primary partition table, and if there is no extended partition.

3. Create a logical partition if an extended partition exists.

If more than one of these actions is possible, you will be asked to select Primary, Extended, or Logical, depending on what is currently permissible. Before you create a primary or an extended partition, you are asked what slot it is to have in the table (1-4).

You may not add a primary or an extended partition if the selected slot in the primary partition table is already occupied: in that case you simply return to the main menu. You are not allowed to add a new primary partition unless there are sectors available outside the extended partition. You are not allowed to add a new logical partition unless there are sectors available inside the extended partition.

If space is available, you are prompted for the first cylinder:

   First cylinder ([237]-977): _

The limits are the lowest and the highest cylinders in which sectors are available in the appropriate part of the disk. The square-bracketed number is what you'll get if you simply press enter. Not all numbers in this range are necessarily available: they may fall inside an existing partition. If you select a cylinder which is already in use, you are told off and prompted again for the first cylinder. After selecting the first cylinder, you are prompted again:

   Last cylinder or +size or +sizeM or +sizeK (237-[836]): _
The limits are the cylinder you have chosen as the first cylinder, and the highest cylinder which contains a legitimate upper boundary for the new partition. The square-bracketed number is what you'll get if you simply press enter. In other words, all numbers in the given range are legitimate, unlike those in the first range of cylinders. You may also specify the size of a partition in megabytes, kilobytes, or in the current units (cylinders or sectors). A plus sign `+' indicates that your answer is a size rather than a boundary, and the suffix `m' or `k' (upper or lower case) indicates that the size is not given in units of sectors or cylinders, but in megabytes or kilobytes respectively. Thus possible answers to the last cylinder request above are

700
Make cylinder 700 the last cylinder in the partition.

+300
Make cylinder 237 + 300 = 537 the last cylinder in the partition.

+15m
Make the partition at least 15 megabytes in size.

+12500k
Make the partition at least 12,500 kilobytes in size.

If you specify a size which is too large or an end which is out of range, fdisk complains and repeats the prompt.

Adding or deleting partitions has no effect unless you subsequently give the Write command. Please remember to give the Verify command first, just before giving the Write command: this is a safety precaution. After giving the Write command, you will see this message:

The partition table has been altered!
Calling ioctl() to re-read partition table.
Syncing disks.

If there are no further messages, the kernel has successfully copied the information from the partition table into its own internal table. But sometimes you will see a message like this one:

Re-read table failed with error 16: Device or resource busy.
Reboot your system to ensure the partition table is updated.

In this case, depending on what you have changed in the partition table, it may be dangerous to continue working without rebooting, since you may lose or corrupt your data.
Here are some important things to note:

1. Before you reboot, you *may* run `fdisk' again, either to manage another disk, or to make additional changes to the same disk, or just to check that the changes have been made as you expected. This is true even after you receive the message warning you to reboot.

2. It is not a good idea to run any of the programs `mkfs', `mkswap', `mount', or `swapon' if you have received the warning message but have not rebooted. In this case it is dangerous to run any program, but these in particular may cause serious damage to the data on your disk, including the partition tables themselves.

Active flags and system types
-----------------------------------

The active flag is a bit in the partition table entry which marks a partition as bootable. This is important to some primary boot sector programs, which will not boot from an unflagged partition. Other such programs do not allow more than one partition to be flagged. Some, like LILO, ignore the flags completely. I prefer to flag all bootable partitions as active so that they stand out on the menu which `fdisk' lists. Fdisk prints a star after the name of a partition's device file if its active flag is set.

The Active command changes, or toggles, a partition's active flag. Give the Active command, and select a partition by number. If it was marked inactive, it will be flagged as active; if it was flagged as active, it will be marked inactive. You may set the active flag on an extended or logical partition, though the meaning of such a flag is by no means clear. This can be used to install LILO as a secondary boot loader to boot a Linux which lives on a second hard disk.

The Type command changes the ID number which describes what type a partition is. `fdisk' currently recognises 30 system IDs, in the sense that it prints a string for each of them, but it allows you to change any system ID to any other, with the following exceptions: you may not change any partition to or from the type Extended, and you may not change a partition whose type is Empty (0) to any other type. You may, however, change the type of any data partition to 0, which is equivalent to deleting it.

The new system ID or type code is a hexadecimal number. There are two ways of listing the numbers which `fdisk' recognises: use the List command, which prints the list, or use the Type command, which, when it
prompts you for the code, says

Hex code (type L to list codes): _

where the upper case 'L' is used for clarity. The codes printed are:
Some of these numbers are a trifle uncertain. By default 'fdisk' uses
a type of 83. It used to use 81, the type code used by the MINIX
'fdisk'. It seemed prudent to change the default since (a) many Linux
'minix' file systems are no longer compatible with MINIX, (b) the ext2
file system, a native Linux file system, is fairly stable, as is the
Xia file system, and (c) the number 81 causes problems with DR-DOS.
Linux does not usually care what values you use for type codes, but
other systems, in particular DOS, OS/2, and DR-DOS, may.

The value of 82 for Linux swap partitions is my own invention, and
is intended to give some recognisable distinction to the partitions
when the values are displayed in hexadecimal.

New active flags and new system type codes are not written to the
disk until you exit from 'fdisk' with the Write command, as described
above, in the section on deleting and adding partitions.

Extra commands for experts
-----------------------------

The eXtra command 'x' puts 'fdisk' into 'expert' mode, in which a
slightly different set of commands is available. The Active, Delete,
List, New, Type, Verify, and 'eXpert' commands are not available in
expert mode. The commands Write and Quit are available as in ordinary
mode, the Print command is available, but produces output in a slightly
different format, and of course the Menu command prints the expert
menu. There are several new commands.

1. The Return command brings you back to the main menu.

2. The Extended command prints the list of table entries which point
to other tables. Ordinary users do not need this information.
The data is shown as it is stored. The same format is used for
the expert Print command.

3. The dangerous Begin command allows you to move the start of data
in a partition away from its beginning. Other systems create
partitions with this format, and it is sometimes useful to be able
to reproduce it.

4. The slightly dangerous Cylinders command allows you to change the
available number of cylinders. For SCSI disk owners, note that we
require not the actual number of physical cylinders, but the number of logical cylinders used by DOS and other operating systems.

5. The extremely dangerous Heads and Sectors commands allow you to change the number of heads and sectors. It should not be necessary to use these commands unless you have a SCSI disk, whose geometry Linux is not always able to determine. SCSI disk owners note that we need not the actual number of heads or of sectors per track, but the number believed to exist by DOS and other operating systems. *Warning*: If you set either of these numbers to a bad value, you may lose all data on your disk.

Always, after giving any of the commands Begin, Cylinder, Heads, or Sectors, you should Return to the main menu and give the Verify command.

Warnings for `fdisk' users
--------------------------

In general, you should not use this `fdisk' program to create partitions for other operating systems, only for Linux. Nor should you use `fdisk' commands from other operating systems to create partitions for Linux.

DR-DOS 5.0 and 6.0 are reported to have difficulties with partition ID codes of 80 or more. The Linux `fdisk' used to set the system type of new partitions to hexadecimal 81. DR-DOS seems to confuse this with hexadecimal 1, a DOS code. The values 82 for swap and 83 for file systems should not cause problems with DR-DOS. If they do, you may use the `fdisk' command `t' to change the system code of any Linux partitions to some number less than hexadecimal 80; I suggest 42 and 43 for the moment.

Partitioning a hard disk may destroy data which is on that disk if you are not careful. Go slowly, write down a description of the partition tables before you changed them, and always verify before you write.

Most operating systems and utilities expect that all partitions begin and end at cylinder boundaries. This version of `fdisk' does so by default, but you can use it to create partitions which begin or end anywhere. This does not normally affect Linux, but it is very dangerous, as other operating systems (including DOS) may try to `correct' the partition boundaries.

It is dangerous to create a new partition when the display/entry units are sectors.
The Verify command warns you if anything is wrong. *Always* give a Verify command before writing any changes to disk.

If you set the disk geometry (tracks per cylinder, or sectors per track) to an incorrect value, you may lose all data on your disk.

Do create BSD/SUN and/or IRIX/SGI disk labels only when you are sure that you want them. Both features are intended to allow you READing those labels and prevent unintentional formatting of these disks.

Hwclock is a program that runs under Linux and sets and queries the Hardware Clock, which is often called the Real Time Clock, RTC, or CMOS clock.

Sometimes, you need to install hwclock setuid root. If you want users other than the superuser to be able to display the clock value using the direct ISA I/O method, install it setuid root. If you have the /dev/rtc interface on your system or are on a non-ISA system, there's probably no need for users to use the direct ISA I/O method, so don't bother.

To install setuid root, do something like this:

```
chmod a=rx,u=s /sbin/hwclock
```

In any case, hwclock will not allow you to set anything unless you have the superuser _real_ uid. (This is restriction is not necessary if you haven't installed setuid root, but it's there for now).

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25/10/95 Peter Orbaek <poe@daimi.aau.dk>

Some notes for using agetty with modems

Using a comms program to initialize the modem

* Use kermit or minicom to initialize the modem to
  - be entirely quiet.
  - don't do local echo in command mode.
  - turn on DCD (carrier detect) only when there is a connection going.
  - enable auto-answer.
  - keep a constant computer/modem bitrate at all times.
  - optionally save this setup as the modem startup configuration.

* Run agetty on the appropriate ttySn port with the arguments:
  * -w to wait for a CR or LF before writing the /etc/issue message
  * computer/modem bitrate
  * the tty name.

Example from my modem setup, an old 2400 bps SupraModem using Hayes standard
AT commands.

Initialize modem using kermit with the commands

AT E0 Q1 &D2 &C1 S0=1 &W0

to
  - turn off local echo from modem when in command mode (E0).
  - disable all result codes from modem (Q1).
  - make an on/off transition on the DTR line make the modem
disconnect and go into command mode (&D2).
  - make the computer/modem DCD line track the modem/modem
carrier detect signal, i.e. no connection means no
carrier detect signal to the computer (&C1).
  - enable auto-answer after the first ring (S0=1).
  - store the configuration as the start configuration (&W0).

The commands on your modem to achieve the same setup may vary, especially
the &D2 and &C1 commands may not be entirely standard.

Exit kermit/minicom.

Put the command

/sbin/agetty -w 2400 ttyS1
in the command field of the appropriate line in /etc/inittab to start agetty on /dev/ttyS1 with a 2400 bps speed between modem and computer.

Initializing the modem with agetty

Use the agetty -I command line option to specify a modem init string, like for the same setup as above, use the following agetty command in your /etc/inittab.

/sbin/agetty -w -I 'ATE0Q1&D2&C1S0=1\015' 2400 ttyS1

The final \015 is an octal coding of the carriage return character ending the command string.

If you're using simpleinit (part of this package) instead of the SYSV compatible init (you're most likely using the SYSV one!) then you must remove the single quotes from the command line above.

Note that the &W0 command was not used here since the modem will be initialized each time agetty starts.

With a V.34 (28.8 kbps) modem try starting with a command like:

/sbin/agetty -w -I 'ATE0Q1&D2&C1S0=1\015' 115200 ttyS1

Note that agetty supports the higher (>9600 bps) serial speeds directly, there's no need to use setserial to use the higher speeds.

---

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Version 2.1, February 1999

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that 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,
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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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
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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== Notes to developers ==

The final solution will be libmount/mount.c as the
mount(8) command implementation. So, let's keep the
current mount/* code in maintenance mode and don't try to
rewrite it :-)  
README for the "pg" utility for Linux.

The "pg" utility is the historic System V equivalent to BSD's "more". This
is a free clone of it, and it is intended to conform to the SVID 4 as well
as the SUSv2 specification of this command.

Contrasting to the System V implementation, this one filters backspace
formatting sequences while searching, so you can comfortably search in nroff
output like manual pages.

This code uses routines as defined by SUSv2, so a glibc version of 2.1 or
higher is required on Linux. A curses implementation (like ncurses) must
be present as well.

If large files > 2GB are supported by the kernel and the C library, pg is
able to handle them.

Please send comments, bug-reports and especially bug-fixes to
<g-r@bigfoot.de>.

Gunnar Ritter
Freiburg i. Br.
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Security hole in `script`

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

The BSD `script` utility included in the `bsdutils` package is not installed setuid root, and was not written to be. Sometimes the tty `script` allocates is already owned by the appropriate user, in which case there will be no problem. In other cases, `script` will not be able to set the ownership or mode of the pty/tty pair it allocates, and so it cannot prevent other processes reading or writing to the tty.

The result of this is a security hole: during such a `script` session, other users can read keystrokes from your tty, or write to your terminal, without any warning or explicit authorisation. This means that any password(s) or other sensitive data you enter during such a `script`
session are not secure against snooping, even if they are (properly) not echoed to the screen.

To protect against this, `script' tries to detect whether the tty allocated for it by the C library's openpty() function is secure against snooping. If it detects that there is a problem, `script' issues a warning. If you see this warning, you should not enter any sensitive data during the script session, and you should not trust the output displayed, or that recorded in the `typescript' file, to be free from tampering.

This bug is due to a long-standing design flaw in UNIX, and is to be cured shortly by the introduction of the UNIX98-style pty system supported by GLIBC 2.1 and Linux 2.2. The UNIX98-style pty system makes use of kernel support to create slave devices on the fly, with the correct ownership and permissions already in place. This allows unprivileged user programs to allocate pty/tty pairs securely, and eliminates the race conditions currently present in pty allocation.

When `script' is used on a system with UNIX98-style pty support in the kernel and in libc, `script' will detect that its tty is secure, and will not display the warning.

Charles Briscoe-Smith <cpbs@debian.org> Wed, 9 Dec 1998 13:32:49 +0000
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Initialize empty image
f1c9645d8c14e8dcd78a3226f8f26eb 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
2d8e8ddf15a8a045db233418dd73fbd 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
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
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<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
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<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Note that debian/rules is set up to include the file on Ubuntu systems, so for people trying to build e2fsprogs on Ubuntu systems, they should start from the upstream sources, and not the Debian-expurgated sources found in the Debian repository. (n.b., for WIP releases the command "./util/gen-tarball ubuntu" will help create tar file which is appropriately named to make life easier for dpkg-buildpackage.) Since Ubuntu doesn't have the DFSG restrictions, the documentation which has been removed for Debian's DFSG license purity shouldn't be denied to Ubuntu users.

Theodore Ts'o
October 3, 2006

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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.)

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

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This package contains a reimplementation of getopt(1).

**PREFACE**

Getopt(1) is a program to help shell scripts parse command-line parameters. It is for example included in the util-linux distribution (upto version 2.7.1). But, there are some problems with that getopt(1) implementation, as listed in the 'BUGS' section of its man-page:

> **BUGS**
> - Whatever getopt(3) has.
> - Arguments containing white space or imbedded shell metacharacters generally will not survive intact; this looks easy to fix but isn't.
The error message for an invalid option is identified as coming from getopt rather than from the shell procedure containing the invocation of getopt; this again is hard to fix.

The precise best way to use the set command to set the arguments without disrupting the value(s) of shell options varies from one shell version to another.

This implementation of getopt(1) is written to solve some of these problems, while still staying (for all practical purposes) completely compatible with other getopt(1) implementations.

INSTALLATION

Installation should be very easy. Just type 'make' to compile the sources. It should compile cleanly, without any warnings, but even if it does not you probably don't have to worry. You must use GNU Make and gcc, or you will have to edit the Makefile.

Type 'make install' to install the binary and the manual page. It installs by default in /usr/local/bin and /usr/local/man/man1, to install in /usr/bin and /usr/man/man1 try 'make install prefix=/usr'.

The example files can be installed in /usr/local/lib/getopt by calling 'make install_doc'.

If you do not trust the getopt(3) in your libc, or if you do not use a libc with the GNU getopt(3) routines, you can use the gnu sources as provided in the gnu directory. Try 'make LIBCGETOPT=0'. Ignore any compile warnings.

You can check whether the new implementation of getopt is found first in your path by calling 'bash test.bash'.

HIGHLIGHTS

It can do anything that the GNU getopt(3) routines can do.

It can cope with spaces and shell metacharacters within arguments.

It can parse long parameters.

It can shuffle parameters, so you can mix options and other parameters on the command-line.

It can be easily identified as an enhanced getopt(1) from within shell scripts.
It can report parse errors as coming from the shell script.

It is fully compatible with other getopt(1) implementations.

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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 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd 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
2e1cee529cb59c9341afe0443f196a1 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

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

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.

<p>| | | | | |</p>
<table>
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<tbody>
<tr>
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<td>4.1BSD</td>
<td>9</td>
</tr>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
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<tr>
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<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
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<tr>
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<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Command (m for help):

1.248 libmpc3 1.0.3 :1

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center Version 1.3, 3 November 2008

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {

    }

}
return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }
}
if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission.  A permission consists of a permission name
 * and optionally a list of actions that relate to the permission.  The
 * actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the `<code>Guard</code>` interface for this class.
* It calls the `<code>checkPermission</code>` method in
* `<code>SecurityManager</code>` with this `<code>Permission</code>` as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
* 
* @param obj the `<code>Object</code>` being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this `<code>Permission</code>` implies that the
* specified `<code>Permission</code>` is also granted.
* 
* @param perm the `<code>Permission</code>` to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use `<code>implies</code>`, rather
* than `<code>equals</code>`, when making access control decisions.
* 
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this `<code>Permission</code>`. It
* must satisfy the contract of `<code>Object.hashCode</code>`: it must be
* the same for all objects that equals considers to be the same.
* 
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this `<code>Permission</code>`.
* 
* @return the name
/**
 * public final String getName()
 {
   return name;
 }

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
 public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
 public PermissionCollection newPermissionCollection()
 {
   return null;
 }

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>\( (\text{getClass().getName()} + \ ' + \text{getName()} + \ ' + \text{getActions}
 * + \ ' ) \) \</code>.
 *
 * @return this object as a <code>String</code>
 */
 public String toString()
 {
   CPStringBuilder string = new CPStringBuilder();
   string = string.append('(');
   string = string.append(getClass().getName());
   string = string.append(' '); 
   string = string.append(getName());
   string = string.append(' ');
   string = string.append(getActions());
   string = string.append(' ') ;
   return string.toString();
 }
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;
/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.  
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'decomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'y1wrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
# Ignore references to copyright in changelog entries.
return re.compile (r't')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        return None
self.errors = errors

# Characters in a range of years. Include '.' for typos.
ranges = '[0-9]+([-0-9.,\s]+)[0-9]+'

# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]+'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (r'
    (\[Cc\]opyright\s+\[Cc\])
    (\s*(?:' + ranges + ',?\s*|\s*@value\{[^{]*\})\s*)
    (by\s+)?
    (' + name + '(?:\s?' + name + ')*)?
')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*\[0-9\]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*\[0-9\][0-9]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//=|@c |dnl ')
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                ...
try:
    next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation, 
# assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match
holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package 
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'


line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
if match:
    res = self.update_copyright (dir, filename, filter,
        file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

# Check for copyright lines that might have slipped by.
eelif self.other_copyright_re.search (line):
    self.errors.report (pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append (line)
    line = next_line

  # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        if self.use_quilt:
            subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
                 self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
                 self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    'Options:\n' % sys.argv[0])
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
self.chosen_dirs = self.default_dirs
if len(self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join(chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith(canon_dir):
                count += 1
                self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

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

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
        '}]
# Handled separately.
testsuite,
)

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Maintained by the translation project.
        ])

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class LibGCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
            # Not really part of the library
            'contrib',
            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    ])

    self.skip_dirs |= set ([
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    ])

    self.own_files |= set ([
        # Contains markup around the copyright owner.
        'spine.xml',
    ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc', 'libada', 'libatomic', 'libbacktrace', 'libcpp', 'libdecnumber', 'libgcc', 'libgfortran', 'libgomp', 'libitm', 'libmudflap', 'libobjc', 'libstdc++-v3',]

GCCCmdLine().main()

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For more information see the README file in the examples directory.

Directory native/fdlibm
fdlimb contains general algorithms useful for runtimes and compilers to
support strict double and float mathematical operations.

fdlimb files carry the following notices:

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The upstream for fdlibm is libgcj (http://gcc.gnu.org/java/), they sync again with the 'real' upstream (http://www.netlib.org/fdlibm/readme).

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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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// DO NOT EDIT THIS FILE - it is machine generated .-.* c++ .-.*

 ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiname.mti.at.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)i) 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(agr@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ss.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
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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\"\n\" Standard preamble:
\"=======================================================================
.de Sh \" Subsection heading
.br
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\ds C+ C\(\cdot.1\v'\h'\h'-1p's-2+h'-1p'+\h'\v'1\v'h'-1p'
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.IP "1. Source Code." 4

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    /* Use the Sequent Symmetry assembler syntax. */

    /* Define the syntax of pseudo-ops, labels and comments. */

    /* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"
/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line 
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line 
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
( fputs (".comm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line 
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG)\  if ((LOG)!=(0)) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  sprintf ((BUF), "*_%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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</appendix>

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the \textit{Lesser} General Public License because it does not provide the same protection for the user's freedom as 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 \texttt{``work based on the library''} and a \texttt{``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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\item This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called \texttt{``this License''}). Each
licensee is addressed as `you`.

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

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

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

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

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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:

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

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

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

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

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

@end enumerate

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

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

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

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

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

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

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

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

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

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

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:

- 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.)

- 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.

@item
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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.

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

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@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}
@end smallexample

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

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

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

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

That's all there is to it!

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can use it too, but we suggest you first think carefully about whether
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it in new free programs; and that you are informed that you can do
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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 other code with the library, you must provide
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with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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Version 3, 29 June 2007

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#!/usr/bin/python
#
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#
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#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
By default the script will update all directories for which the output has been vetted. You can instead pass the names of individual directories, including those that haven't been approved. So:

```
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update all copyright notices (and possibly at other times to check whether new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before this script is run. There's already a separate procedure for that.
```

```python
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ' ' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
```
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return None

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    )

get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
return True

(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\](?:[-0-9,.\s\+]+)?\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w-\['
# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile(
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright' +
    '([Cc]opyright\s+\([Cc]\))' +
    '([Cc]opyright\s+%s' +
    '([Cc]opyright\s+&copy;' +
    '([Cc]opyright\s+@copyright\{' +
    'copyright = u"' +
    '[@set\s+copyright[\w-]+]' +
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\(?\s*\+ ranges \+ \s*\)\s*' +
    # 3: 'by ', if used
    '(by\s+)?' +
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(?:\s*\+ name \+ (?:\s*\+ name \+ ?))*')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl')

self.holders = {'@copying': '@copying'}

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ' '
def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find("")
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

    def year_range(self, years):
        year_list = [self.parse_year(year)
                     for year in self.year_re.findall(years)]
        assert len(year_list) > 0
        return (min(year_list), max(year_list))

    def set_use_quilt(self, use_quilt):
        self.use_quilt = use_quilt

    def include_year(self, year):
        assert not self.max_year
        self.max_year = year

    def canonicalise_years(self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith('@value '):
            return years
        (min_year, max_year) = self.year_range(years)
# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canons_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
+ ('' if intro.startswith ('copyright = ') else ' ')
+ canon_form + self.separator
+ line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
else:
    intro = intro[:-3] + ' (C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

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def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set (['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set (['
            # Maintained by the translation project.
            'po',
        ']
self.fossilised_files |= set ()
# Old news won't be updated.
'OONEWS',
})

class TestsuiteFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

self.skip_extensions |= set ()
# Don't change the tests, which could be woend by anyone.
'.c',
'.C',
'.cc',
'.h',
'.hs',
'.f',
'.f90',
'.go',
'.inc',
'.java',
})

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

self.skip_extensions |= set ()
# Maintained by the translation project.
'.po',

# Automatically-generated.
'.pot',
})

class LibGCCFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Imported from GLIBC.
        'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
self.skip_dirs |= set(
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
)

self.own_files |= set(
    # Contains markup around the copyright owner.
    'spine.xml',
)

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        self.add_package_author('Free Software Foundation, Inc.')
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')

        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdececnmber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libgfortran',
    'libletc',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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

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

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(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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@item
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// DO NOT EDIT THIS FILE - it is machine generated -*. c++ -. *

#ifndef __java_security_Permission__
define __java_security_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public java::lang::Object
{
    public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
    private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;
    public:
    static ::java::lang::Class class$;
};

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#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {

```
class Permission;

}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#ifndef __java_security_acl_Permission__

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

}
public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &copy; " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable {
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -563657022231596674L;

    /**
     *  This is the name assigned to this permission object.
     *  
     *  @serial the name of the permission
     */
    private String name;

    /**
     *  This method implements the <code>Guard</code> interface for this class.
     *  It calls the <code>checkPermission</code> method in
     *  <code>SecurityManager</code> with this <code>Permission</code> as its
     *  argument. This method returns silently if the security check succeeds
     *  or throws an exception if it fails.
     *  
     *  @param obj the <code>Object</code> being guarded - ignored by this class
     *  @throws SecurityException if the security check fails
     *  @see GuardedObject
     *  @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
* This method returns an empty `<code>PermissionCollection</code>` object
* that can store permissions of this type, or `<code>null</code>` if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* `<code>implies</code>`.
*
* @return a new `<code>PermissionCollection</code>`
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a `<code>String</code>` representation of this
 * `<code>Permission</code>` object. This is in the format:
 * `<code>'' + getClass().getName() + '' + getName() + '' + getActions
 * '' + ')</code>`.
 * 
 * @return this object as a `<code>String</code>`
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals('""')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 */
* @param perm The permission to check for equality
*/
boolean equals (Object perm);

/**
 * This method returns this Permission as a String.
 *
 * @return A String representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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ConstantValue?(WQ–nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System#getName()Ljava/lang/String;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()I
getName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder
*:?>?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass(Ljava/lang/Class;
FHPjava/lang/Class45
]:J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:CV95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**a[]^

XM,,*$nop
q */+
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@

"+7>GNSKWXYZ
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/javafx/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javafx/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/javafx/sound/AudioSecurityManager$Permission;<clinit>
V)Code
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
tisvalues4O(Lgnu/javafx/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javafx/sound/AudioSecurityManager$Permission;
)=.5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<gLgnu/javafx/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javafx/sound/AudioSecurityManager
Permission@1@@@

eAYYYYYSYSYS
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1*+E!"*+./012
35@

// DO NOT EDIT THIS FILE - it is machine generated -*. c++ -*.

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;


class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);

    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

    public:
    static ::java::lang::Class class$;

};

#define __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (age@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.)

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
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@c man begin COPYRIGHT
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@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
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@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\" Standard preamble:
\"===============================================
.de Sh \" Subsection heading
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.if t .Sp
.ne 5
.PP
\B\$1\fR
.PP
.. 
de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
\" Set up some character translations and predefined strings. \*(-- will
\" give an unbreakable dash, \*{PI will give pi, \*{L" will give a left
\" double quote, and \*{R" will give a right double quote. \*{C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \*{C+ and \*{C' expand to ' in nroff,
\" nothing in troff, for use with C<>.
.tr \*W-
\if t \%
  . ds #H ((1-u-\\n(.fu%2u))*1.13m)
  . ds #V .6m
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h` --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/ * This says how to output an assembler line 
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputs (".comm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line 
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_Local(FILE, NAME, SIZE, ALIGNMENT) 
(fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), 	.align %d
", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), 
*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_
"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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1.253 libncurses5:amd64 6.0+20160213:1ubuntu1

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-- vile: txtmode file-encoding=utf-8
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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This is the Debian prepackaged version of the ncurses
library and terminfo utilities. ncurses/terminfo was originally written
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currently held by the Free Software Foundation.

This package was put together by Vaidhyanathan G Mayilrangam
<vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources
Current versions of the ncurses sources are found at
ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>,
David Engel <david@elo.ods.com>. Michael Alan Dorman
<mdorman@debian.org>, Richard Braaakman <dark@xs4all.nl>, James Troup
<jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray)
<jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net>
over various years.

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1.254 libncursesw5 6.0+20160213 :1ubuntu1

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--
-- $Id: README.MinGW,v 1.5 2011/02/26 16:57:17 tom Exp $
-- Author: Juergen Pfeifer
--

This is work in progress, but it's in an state where one can see it
works at least on the Windows Console.

You should install the MSYS package, so that you've a shell environment that
allows you to run the scripts, especially configure etc. You can get that
from http://www.mingw.org

To build ncurses for native Windows, you need the MinGW toolchain. The
original MinGW toolchain from the above site is only for 32-Bit Windows. As
Windows Server - and also regular workstations - are moving to 64-Bit, it
seems to be reasonable to have a toolchain that supports both architectures.
I recommend to use the TDM gcc toolchain which you can find at
http://tdm-gcc.tdragon.net/download. Go to the download section and select
the bundle installer for tdm64 (MinGW-w64). This installs a multilib version
of the gcc toolchain that can compile for native 32- and 64-Bit Windows
versions. It also comes with a working pthread implementation.

The latest config and build scripts we use for MinGW have only been tested
for the gcc-4.4 compiler toolchain (or better).

Using MinGW is a pragmatic decision, it's the easiest way to port this
heavily UNIX based sourcebase to native Windows. The goal is of course
to provide the includes, libraries and DLLs to be used with the more
common traditional development environments on Windows, mainly with Microsoft Visual Studio.

If you start a bash from the MSYS environment, please make sure that the Microsoft Development tools are in your PATH right after the MinGW tools. The LIB.EXE tool is the only one needed. You need this only if you want to build DLLs that work with native Windows programs. If you don't have any Microsoft Development tools on your machine, consider at least to get the free "Visual C++ 2010 Express Edition".

It contains the LIB.EXE tool. You may also use this compiler to test writing native Windows programs using the ncurses DLLs without using MinGW then for writing apps.

It is necessary to unset the TERM environment variable, to activate the Windows console-driver.

Please also make sure that MSYS links to the correct directory containing your MinGW toolchain. For TDM this is usually C:\MinGW64. In your Windows CMD.EXE command shell go to the MSYS root directory (most probably C:\MSYS or C:\MSYS\1.0) and verify, that there is a junction point mingw that points to the MinGW toolchain directory. If not, delete the mingw directory and use the mklink command (or the linkd.exe utility on older Windows) to create the junction point.

This code requires WindowsNT 5.1 or better, which means on the client Windows XP or better, on the server Windows Server 2003 or better.

In order to build ncurses for the planned interop layer with .NET, we recommend to use these options with configure

```
--disable-home-terminfo
--enable-reentrant
--enable-sp-funcs
--enable-term-driver
--enable-interop
--with-pthread         (if using TDM toolchain as recommended)
```

This is the configuration commandline as I'm using it at the moment:

```
./configure \
--prefix=/mingw \
--without-cxx-binding \
--without-ada \
--enable-warnings \
--enable-assertions \
--enable-reentrant \
--with-debug \
--with-normal \
```
If you are on a 64-Bit Windows system and want to build a 32-Bit version of ncurses, you may use this commandline for configuration (when using the TDM toolchain):

```
CC="gcc -m32" LD="ld -m32" ./configure \
--prefix=/mingw \
--without-cxx-binding \
--without-ada \
--enable-warnings \
--enable-assertions \
--enable-reentrant \
--with-debug \
--with-normal \
--disable-home-terminfo \
--enable-sp-funcs \
--enable-term-driver \
--enable-interop \
--with-pthread
```

All the options above are - like the whole Windows support - experimental.

In order to build the DLLs, after your regular make you must call

```
makes dlls
```

A lot is still TODO, e.g.:

- Wide Character support
  The Win32Con driver should actually only use Unicode in the future.
- Thread support (locking). If using TDM toolchain this is done by configuring pthreads.
- A GUI console driver
- Support for Terminals attached via a serial port (via terminfo)
- Support for networked Terminal connections (via terminfo)
- Workarounds for MinGW's filesystem access are necessary to make infocmp work (though tic works).

To support terminfo, we need to have an ioctl() simulation for the serial and networked Terminals.
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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

Preamble

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

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

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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
This is the Debian version of the newt library.
newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi
<ezanard@debian.org>, from sources obtained from:
Recent upstream versions can be found at: http://fedora.redhat.com/

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This package was debianized by Max Kellermann <max@duempel.org> on Wed Sep 20 22:57:38 CEST 2006

It was downloaded from http://www.netfilter.org/downloads.html

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1.258 libnih1 1.0.3 :4.3ubuntu1

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:1ubuntu0.16.04.1
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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.

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging of libnl.

It was downloaded from https://github.com/thom311/libnl/releases

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Tue, 16 Jan 2006 12:00:46 +0000.
The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging
of libnl1.

It was downloaded from https://github.com/thom311/libnl/releases

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lib/netfilter/queue_msg.c
lib/netfilter/queue.c
lib/netfilter/netfilter.c
lib/netfilter/queue_obj.c
include/netlink/netfilter/netfilter.h
include/netlink/netfilter/queue.h
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include/netlink/xfmr/lifetime.h
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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging of libnl1.

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lib/netfilter/queue.c
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src/nf-queue.c

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include/netlink/xtfm/selector.h
include/netlink/xtfm/sa.h
include/netlink/xtfm/ae.h
include/netlink/xtfm/sp.h
include/netlink/xtfm/template.h
include/netlink/xtfm/lifetime.h
lib/xtfm/sa.c
lib/xtfm/template.c
lib/xtfm/ae.c
lib/xtfm/sp.c
lib/xtfm/selector.c
lib/xtfm/lifetime.c

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src/nl-addr-list.c
src/nl-cls-add.c
src/cls/utils.c
src/cls/cgroup.c
src/cls/utils.h
src/cls/basic.c
src/nl-addr-delete.c:

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include/netlink/xfrm/selector.h
include/netlink/xfrm/sa.h
include/netlink/xfrm/ae.h
include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
lib/xfrm/ae.c
lib/xfrm/sp.c
lib/xfrm/selector.c
lib/xfrm/lifetime.c

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1.262 libnspr4:amd64 2:4.13.1:0ubuntu0.16.04.1

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1.266 libp11-kit0 0.23.2 :5~ubuntu16.04.1

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Hello!

Thanks for downloading Linux-PAM.

NOTES:

How to use it is as follows:

./configure --help | less
./configure <your-options>
To make sure everything was compiled correct, run:

```
make check
```

If a test fails, you should not continue to install this build. These tests require a suitable file `/etc/pam.d/other`; if necessary, create such a file containing, e.g., these five lines (not indented)

```bash
#%PAM-1.0
auth	 required	pam_deny.so
account	 required	pam_deny.so
password required	pam_deny.so
session	 required	pam_deny.so
```

Note, if you are worried - don't even think about doing the next line (most Linux distributions already support PAM out of the box, so if something goes wrong with installing the code from this version your box may stop working...)

```
make install
```

That said, please report problems to the bug reporting database on sourceforge.net.

You can run additional checks after installing by executing

```
make xtests
```

as root.

WARNING: Running “make xtests” can overwrite configuration data or make the system insecure/unfunctional for a short time! Backup all important data before!

If you do not wish to make the modules dynamically loadable, but build a static libpam including all PAM modules, you have to call:

```
./configure --enable-static-modules --disable-pie
```

In this case you cannot use `pam_unix` in the PAM config files instead you have to use `pam_unix_acct`, `pam_unix_auth`, `pam_unix_passwd` and `pam_unix_session`.

To run the build checks with static modules, you need to run the
following command: make -C test check && make check

To regenerate manual pages from the XML source files you need the docbook-xsl stylesheets in version 1.69.1 or newer, older versions had a bug which generates a broken layout.

PAM for Debian
--------------

PAM (Pluggable Authentication Modules) provides system administrators with a powerful method of controlling system access and methods of authentication.

The documentation for PAM is packaged in the "libpam-doc" package. The "Linux-PAM System Administrator's Guide" covers configuring PAM, what modules are available etc. The documentation also includes "The Linux-PAM Application Developers' Guide" and "The Linux-PAM Module Writers' Guide".

The Debian default configuration is to emulate the old UNIX authentication.

This package uses quilt to manage all modifications to the upstream source. Changes are stored in the source package as diffs in debian/patches-applied and applied during the build. Please see:

/usr/share/doc/quilt/README.source

for more information on how to apply the patches, modify patches, or remove a patch.
1.268 libpam-modules:amd64 1.1.8 :3.2ubuntu2.1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular
expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the
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THE BASIC LIBRARY FUNCTIONS
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#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) = $copyright_msg =~ /\d(4,)\b/s
   or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
   # returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987\b\d(4,)\b/i
   or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1989
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-------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbz2 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\n  Module-Build mailing list at <module-build@perl.org>.'
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
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The End
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the 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

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#!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) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$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;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2010 Julian R Seward. All
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
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Glenn Randers-Pehrson
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

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

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

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

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

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

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Mersenne Twister
---------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and
`getnameinfo`, which are coded in separate source files from the WIDE

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L. Peter Deutsch
ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

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

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- Arguments more compliant with Python standard

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

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*******************
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========================

Python was created in the early 1990s by Guido van Rossum at Stichting
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although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

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

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

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

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

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (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
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
Asynchronous socket services
---------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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

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

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt

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

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

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

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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Mersenne Twister
---------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

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

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

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
----------------------------

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----

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

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

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Mersenne Twister
---------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

Asynchronous socket services

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

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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

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

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History and License

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History of the software

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
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Mersenne Twister

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

The `mod:` `_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
-------------

The `mod:` `_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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--------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
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Mersenne Twister

-------------

The `mod`:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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The MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ans2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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1.287 libpython3-stdlib:amd64 3.5.1 :3

1.287.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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py3compile, py3clean and debpython module:
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1.288 libpython3.5-minimal:amd64 3.5.2
:2ubuntu0~16.04.8
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------------

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the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
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strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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-------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with python standard

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---------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 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             |
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----------------
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard
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--------------------------

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--------

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Original location:
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  djb (supercop/crypto_auth/siphash24/little2)
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strtod and dtoa
---------------

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cfuhash

-------

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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| 1.3 thru 1.5.2  | 1.2          | 1995-1999  | CNRI       | yes             |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
|----------------+--------------+------------+------------+------------------|
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|----------------+--------------+------------+------------+------------------|
| 2.1.2          | 2.1.1        | 2002       | PSF        | yes             |
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| 2.1.3          | 2.1.2        | 2002       | PSF        | yes             |
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----------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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---------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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-------------

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SipHash24

--------

The file :file:`Python/pyhash.c` contains Marek Majkowski’ implementation of
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strconv and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtof for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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cfuhash

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
-------------

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

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------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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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.

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2.6.1  2.6   2008  PSF  yes
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2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes
3.0   2.6   2008  PSF  yes
3.0.1  3.0   2009  PSF  yes
3.1   3.0.1  2009  PSF  yes
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Mersenne Twister
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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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--------------------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
------

The `mod:` `socket` module uses the functions, `:func:` `getaddrinfo`, and `:func:` `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/..

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---------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtol and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtol for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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-------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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<th>Year</th>
<th>Owner</th>
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Mersenne Twister

The `_random` module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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Mersenne Twister
----------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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Original location:
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Solution inspired by code from:
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- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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cfuhash
-------

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libmpdec
--------

The :mod:`_decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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===============

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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Mersenne Twister
-------------

The `_random' module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

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---------------------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`random` module includes code based on a download from
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the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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-----------------------------

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--------

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Original location:
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   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.290 libqdox-java 1.12.1-1

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This README file is copied into the directory for GCC-only header files when fixincludes is run by the makefile for GCC.

Many of the files in this directory were automatically edited from the standard system header files by the fixincludes process. They are system-specific, and will not work on any other kind of system. They are also not part of GCC. The reason we have to do this is because GCC requires ANSI C headers and many vendors supply ANSI-incompatible headers.

Because this is an automated process, sometimes headers get "fixed" that do not, strictly speaking, need a fix. As long as nothing is broken by the process, it is just an unfortunate collateral inconvenience.
We would like to rectify it, if it is not “too inconvenient”.

Arm / Thumb Interworking

The Cygnus GNU Pro Toolkit for the ARM7T processor supports function calls between code compiled for the ARM instruction set and code compiled for the Thumb instruction set and vice versa. This document describes how that interworking support operates and explains the command line switches that should be used in order to produce working programs.

Note: The Cygnus GNU Pro Toolkit does not support switching between compiling for the ARM instruction set and the Thumb instruction set on anything other than a per file basis. There are in fact two completely separate compilers, one that produces ARM assembler instructions and one that produces Thumb assembler instructions. The two compilers share the same assembler, linker and so on.

1. Explicit interworking support for C and C++ files

By default if a file is compiled without any special command line switches then the code produced will not support interworking. Provided that a program is made up entirely from object files and libraries produced in this way and which contain either exclusively ARM instructions or exclusively Thumb instructions then this will not matter and a working executable will be created. If an attempt is made to link together mixed ARM and Thumb object files and libraries, then warning messages will be produced by the linker and a non-working executable will be created.

In order to produce code which does support interworking it should be compiled with the

-mthumb-interwork

command line option. Provided that a program is made up entirely from object files and libraries built with this command line switch a working executable will be produced, even if both ARM and Thumb instructions are used by the various components of the program. (No warning messages will be produced by the linker either).

Note that specifying -mthumb-interwork does result in slightly larger, slower code being produced. This is why interworking support must be specifically enabled by a switch.
2. Explicit interworking support for assembler files
=================================================================

If assembler files are to be included into an interworking program then the following rules must be obeyed:

* Any externally visible functions must return by using the BX instruction.

* Normal function calls can just use the BL instruction. The linker will automatically insert code to switch between ARM and Thumb modes as necessary.

* Calls via function pointers should use the BX instruction if the call is made in ARM mode:

  .code 32
  mov lr, pc
  bx rX

  This code sequence will not work in Thumb mode however, since the mov instruction will not set the bottom bit of the lr register. Instead a branch-and-link to the _call_via_rX functions should be used instead:

  .code 16
  bl _call_via_rX

  where rX is replaced by the name of the register containing the function address.

* All externally visible functions which should be entered in Thumb mode must have the .thumb_func pseudo op specified just before their entry point. e.g.:

  .code 16
  .global function
  .thumb_func
  function:
  ...start of function....

* All assembler files must be assembled with the switch -mthumb-interwork specified on the command line. (If the file is assembled by calling gcc it will automatically pass on the -mthumb-interwork switch to the assembler, provided that it was specified on the gcc command line in the first place.)
3. Support for old, non-interworking aware code.

If it is necessary to link together code produced by an older, non-interworking aware compiler, or code produced by the new compiler but without the -mthumb-interwork command line switch specified, then there are two command line switches that can be used to support this.

The switch

-mcaller-super-interworking

will allow calls via function pointers in Thumb mode to work, regardless of whether the function pointer points to old, non-interworking aware code or not. Specifying this switch does produce slightly slower code however.

Note: There is no switch to allow calls via function pointers in ARM mode to be handled specially. Calls via function pointers from interworking aware ARM code to non-interworking aware ARM code work without any special considerations by the compiler. Calls via function pointers from interworking aware ARM code to non-interworking aware Thumb code however will not work. (Actually under some circumstances they may work, but there are no guarantees). This is because only the new compiler is able to produce Thumb code, and this compiler already has a command line switch to produce interworking aware code.

The switch

-mcallee-super-interworking

will allow non-interworking aware ARM or Thumb code to call Thumb functions, either directly or via function pointers. Specifying this switch does produce slightly larger, slower code however.

Note: There is no switch to allow non-interworking aware ARM or Thumb code to call ARM functions. There is no need for any special handling of calls from non-interworking aware ARM code to interworking aware ARM functions, they just work normally. Calls from non-interworking aware Thumb functions to ARM code however, will not work. There is no option to support this, since it is always possible to recompile the Thumb code to be interworking aware.

As an alternative to the command line switch
-mcallee-super-interworking, which affects all externally visible functions in a file, it is possible to specify an attribute or
declspec for individual functions, indicating that that particular
function should support being called by non-interworking aware code.
The function should be defined like this:

```c
int __attribute__((interfacearm)) function
{
    ... body of function ...
}
```
or

```c
int __declspec(interfacearm) function
{
    ... body of function ...
}
```

4. Interworking support in dlltool
==================================

It is possible to create DLLs containing mixed ARM and Thumb code. It
is also possible to call Thumb code in a DLL from an ARM program and
vice versa. It is even possible to call ARM DLLs that have been compiled
without interworking support (say by an older version of the compiler),
from Thumb programs and still have things work properly.

A version of the `dlltool' program which supports the `--interwork'
command line switch is needed, as well as the following special
considerations when building programs and DLLs:

*Use `^-mthumb-interwork'*

When compiling files for a DLL or a program the `^-mthumb-interwork'
command line switch should be specified if calling between ARM and
Thumb code can happen. If a program is being compiled and the
mode of the DLLs that it uses is not known, then it should be
assumed that interworking might occur and the switch used.

*Use `^-m thumb'*

If the exported functions from a DLL are all Thumb encoded then the
`^-m thumb' command line switch should be given to dlltool when
building the stubs. This will make dlltool create Thumb encoded
stubs, rather than its default of ARM encoded stubs.

If the DLL consists of both exported Thumb functions and exported
ARM functions then the `^-m thumb' switch should not be used.
Instead the Thumb functions in the DLL should be compiled with the
`^-mcallee-super-interworking' switch, or with the `interfacearm'
attribute specified on their prototypes. In this way they will be
given ARM encoded prologues, which will work with the ARM encoded
stubs produced by dlltool.

*Use `-mcaller-super-interworking'*

If it is possible for Thumb functions in a DLL to call
non-interworking aware code via a function pointer, then the Thumb
code must be compiled with the `-mcaller-super-interworking'
command line switch. This will force the function pointer calls
to use the _interwork_call_via_rX stub functions which will
correctly restore Thumb mode upon return from the called function.

*Link with `libgcc.a'*

When the dll is built it may have to be linked with the GCC
library (`libgcc.a') in order to extract the _call_via_rX functions
or the _interwork_call_via_rX functions. This represents a partial
redundancy since the same functions *may* be present in the
application itself, but since they only take up 372 bytes this
should not be too much of a consideration.

*Use `--support-old-code'*

When linking a program with an old DLL which does not support
interworking, the `--support-old-code' command line switch to the
linker should be used. This causes the linker to generate special
interworking stubs which can cope with old, non-interworking aware
ARM code, at the cost of generating bulkier code. The linker will
still generate a warning message along the lines of:
"Warning: input file XXX does not support interworking, whereas YYY does."
but this can now be ignored because the --support-old-code switch
has been used.

5. How interworking support works
=================================

Switching between the ARM and Thumb instruction sets is accomplished
via the BX instruction which takes as an argument a register name.
Control is transferred to the address held in this register (with the
bottom bit masked out), and if the bottom bit is set, then Thumb
instruction processing is enabled, otherwise ARM instruction
processing is enabled.

When the -mthumb-interwork command line switch is specified, gcc
arranges for all functions to return to their caller by using the BX
instruction. Thus provided that the return address has the bottom bit
correctly initialized to indicate the instruction set of the caller,
correct operation will ensue.
When a function is called explicitly (rather than via a function pointer), the compiler generates a BL instruction to do this. The Thumb version of the BL instruction has the special property of setting the bottom bit of the LR register after it has stored the return address into it, so that a future BX instruction will correctly return the instruction after the BL instruction, in Thumb mode.

The BL instruction does not change modes itself however, so if an ARM function is calling a Thumb function, or vice versa, it is necessary to generate some extra instructions to handle this. This is done in the linker when it is storing the address of the referenced function into the BL instruction. If the BL instruction is an ARM style BL instruction, but the referenced function is a Thumb function, then the linker automatically generates a calling stub that converts from ARM mode to Thumb mode, puts the address of this stub into the BL instruction, and puts the address of the referenced function into the stub. Similarly if the BL instruction is a Thumb BL instruction, and the referenced function is an ARM function, the linker generates a stub which converts from Thumb to ARM mode, puts the address of this stub into the BL instruction, and the address of the referenced function into the stub.

This is why it is necessary to mark Thumb functions with the .thumb_func pseudo op when creating assembler files. This pseudo op allows the assembler to distinguish between ARM functions and Thumb functions. (The Thumb version of GCC automatically generates these pseudo ops for any Thumb functions that it generates).

Calls via function pointers work differently. Whenever the address of a function is taken, the linker examines the type of the function being referenced. If the function is a Thumb function, then it sets the bottom bit of the address. Technically this makes the address incorrect, since it is now one byte into the start of the function, but this is never a problem because:

a. with interworking enabled all calls via function pointer are done using the BX instruction and this ignores the bottom bit when computing where to go to.

b. the linker will always set the bottom bit when the address of the function is taken, so it is never possible to take the address of the function in two different places and then compare them and find that they are not equal.

As already mentioned any call via a function pointer will use the BX instruction (provided that interworking is enabled). The only problem with this is computing the return address for the return from the
called function. For ARM code this can easily be done by the code sequence:

```
mov lr, pc
bxr X
```

(where rX is the name of the register containing the function pointer). This code does not work for the Thumb instruction set, since the MOV instruction will not set the bottom bit of the LR register, so that when the called function returns, it will return in ARM mode not Thumb mode. Instead the compiler generates this sequence:

```
bl_call_via_rX
```

(again where rX is the name if the register containing the function pointer). The special call_via_rX functions look like this:

```
.thumb_func
_call_via_r0:
bxr0
nop
```

The BL instruction ensures that the correct return address is stored in the LR register and then the BX instruction jumps to the address stored in the function pointer, switch modes if necessary.

6. How caller-super-interworking support works
=================================================================

When the -mcaller-super-interworking command line switch is specified it changes the code produced by the Thumb compiler so that all calls via function pointers (including virtual function calls) now go via a different stub function. The code to call via a function pointer now looks like this:

```
bl_interwork_call_via_r0
```

Note: The compiler does not insist that r0 be used to hold the function address. Any register will do, and there are a suite of stub functions, one for each possible register. The stub functions look like this:

```
.code 16
.thumb_func
_interwork_call_via_r0
bx pc
```
The stub first switches to ARM mode, since it is a lot easier to perform the necessary operations using ARM instructions. It then tests the bottom bit of the register containing the address of the function to be called. If this bottom bit is set then the function being called uses Thumb instructions and the BX instruction to come will switch back into Thumb mode before calling this function. (Note that it does not matter how this called function chooses to return to its caller, since the both the caller and callee are Thumb functions, and mode switching is necessary). If the function being called is an ARM mode function however, the stub pushes the return address (with its bottom bit set) onto the stack, replaces the return address with the address of the a piece of code called '_arm_return' and then performs a BX instruction to call the function.

The '_arm_return' code looks like this:

```assembly
.code 32
_arm_return:
ldmia r13!, {r12}
bx r12
.code 16
```

It simply retrieves the return address from the stack, and then performs a BX operation to return to the caller and switch back into Thumb mode.

7. How callee-super-interworking support works

When -m callee-super-interworking is specified on the command line the Thumb compiler behaves as if every externally visible function that it compiles has had the (interfacearm) attribute specified for it. What this attribute does is to put a special, ARM mode header onto the function which forces a switch into Thumb mode:

```assembly
without __attribute__((interfacearm)):
```

```assembly
.code 16
```
.thumb_func
function:
... start of function ...

with __attribute__((interfacearm)):

.code 32
function:
orrr12, pc, #1
bxr12

.code 16
.thumb_func
.real_start_of_function:

... start of function ...

Note that since the function now expects to be entered in ARM mode, it
no longer has the .thumb_func pseudo op specified for its name.
Instead the pseudo op is attached to a new label .real_start_of_<name>
(where <name> is the name of the function) which indicates the start
of the Thumb code. This does have the interesting side effect in that
if this function is now called from a Thumb mode piece of code
outside of the current file, the linker will generate a calling stub
to switch from Thumb mode into ARM mode, and then this is immediately
overridden by the function's header which switches back into Thumb
mode.

In addition the (interfacearm) attribute also forces the function to
return by using the BX instruction, even if has not been compiled with
the -mthumb-interwork command line flag, so that the correct mode will
be restored upon exit from the function.

8. Some examples
================

Given these two test files:

int arm (void) { return 1 + thumb (); }

int thumb (void) { return 2 + arm (); }

The following pieces of assembler are produced by the ARM and Thumb
version of GCC depending upon the command line options used:

`-O2':

.code 32 .code 16
Note how the functions return without using the BX instruction. If these files were assembled and linked together they would fail to work because they do not change mode when returning to their caller.

`-O2 -mthumb-interwork':

```
.arm:        .thumb:
    mov     ip, sp
    stmfd   sp!, {fp, ip, lr, pc}          push    {lr}
    sub     fp, ip, #4
    bl     _thumb                           bl      _arm
    add     r0, r0, #1                      add     r0, r0, #2
    ldmea   fp, {fp, sp, pc}                pop     {pc}
```

Now the functions use BX to return their caller. They have grown by 4 and 2 bytes respectively, but they can now successfully be linked together and be expect to work. The linker will replace the destinations of the two BL instructions with the addresses of calling stubs which convert to the correct mode before jumping to the called function.

`-O2 -m callee-super-interworking':

```
.arm:        .thumb:
    orr      r12, pc, #1
    bx       r12
    mov     ip, sp                         .code 16
    stmfd   sp!, {fp, ip, lr, pc}          push     {lr}
    sub     fp, ip, #4
    bl     _thumb                           bl      _arm
    add     r0, r0, #1                      add     r0, r0, #2
    ldmea   fp, {fp, sp, lr}               pop      {r1}
    bx      lr                             bx      r1
```
The thumb function now has an ARM encoded prologue, and it no longer has the `.thumb-func' pseudo op attached to it. The linker will not generate a calling stub for the call from arm() to thumb(), but it will still have to generate a stub for the call from thumb() to arm(). Also note how specifying `--mcallee-super-interworking' automatically implies `--mthumb-interworking'.

9. Some Function Pointer Examples

Given this test file:

```c
int func (void) { return 1; }
int call (int (* ptr)(void)) { return ptr (); }
```

The following varying pieces of assembler are produced by the Thumb version of GCC depending upon the command line options used:

```
-O2:
.code16
.globl_func
.thumb_func
_func:
movr0, #1
bx lr
.globl_call
.thumb_func
_call:
push{lr}
bl__call_via_r0
pop{pc}
```

Note how the two functions have different exit sequences. In particular call() uses pop {pc} to return, which would not work if the caller was in ARM mode. func() however, uses the BX instruction, even though `--mthumb-interwork' has not been specified, as this is the most efficient way to exit a function when the return address is held in the link register.

```
-O2 -mthumb-interwork:
.code16
.globl_func
```
This time both functions return by using the BX instruction. This means that call() is now two bytes longer and several cycles slower than the previous version.

`-O2 -mcaller-super-interworking':

```
.globl_func
.thumb_func
_func:
movr0, #1
bxlr
```

Very similar to the first (non-interworking) version, except that a different stub is used to call via the function pointer. This new stub will work even if the called function is not interworking aware, and tries to return to call() in ARM mode. Note that the assembly code for call() is still not interworking aware itself, and so should not be called from ARM code.

`-O2 -mcallee-super-interworking':

```
.code32
.globl_func
_func:
orlr12, pc, #1
bxr12
```

```
.code16
```
Now both functions have an ARM coded prologue, and both functions
return by using the BX instruction. These functions are interworking
aware therefore and can safely be called from ARM code. The code for
the call() function is now 10 bytes longer than the original, non
interworking aware version, an increase of over 200%.

If a prototype for call() is added to the source code, and this
prototype includes the `interfacearm' attribute:

    int __attribute__((interfacearm)) call (int (* ptr)(void));

then this code is produced (with only -O2 specified on the command
line):

    .code16
    .globl_func
    .thumb_func
    _func:
    movr0, #1
    bxlr

    .globl_call
    .code32
    _call:
    orrr12, pc, #1
    bxr12
.code16
.globl .real_start_of_call
.thumb_func
.real_start_of_call:
push{lr}
bl__call_via_r0
pop{r1}
bx r1

So now both call() and func() can be safely called via non-interworking aware ARM code. If, when such a file is assembled, the assembler detects the fact that call() is being called by another function in the same file, it will automatically adjust the target of the BL instruction to point to .real_start_of_call. In this way there is no need for the linker to generate a Thumb-to-ARM calling stub so that call can be entered in ARM mode.

10. How to use dlltool to build ARM/Thumb DLLs
==============================================
Given a program (`prog.c') like this:

extern int func_in_dll (void);

int main (void) { return func_in_dll(); }

And a DLL source file (`dll.c') like this:

int func_in_dll (void) { return 1; }

Here is how to build the DLL and the program for a purely ARM based environment:

*Step One
Build a `.def' file describing the DLL:

; example.def
; This file describes the contents of the DLL
LIBRARY example
HEAPSIZE 0x40000, 0x2000
EXPORTS
    func_in_dll 1

*Step Two
Compile the DLL source code:

arm-pe-gcc -O2 -c dll.c
**Step Three**
Use `dlltool' to create an exports file and a library file:

```
dlltool --def example.def --output-exp example.o --output-lib example.a
```

**Step Four**
Link together the complete DLL:

```
arm-pe-ld dll.o example.o -o example.dll
```

**Step Five**
Compile the program's source code:

```
arm-pe-gcc -O2 -c prog.c
```

**Step Six**
Link together the program and the DLL's library file:

```
arm-pe-gcc prog.o example.a -o prog
```

If instead this was a Thumb DLL being called from an ARM program, the steps would look like this. (To save space only those steps that are different from the previous version are shown):

**Step Two**
Compile the DLL source code (using the Thumb compiler):

```
thumb-pe-gcc -O2 -c dll.c -mthumb-interwork
```

**Step Three**
Build the exports and library files (and support interworking):

```
dlltool -d example.def -z example.o -l example.a --interwork -m thumb
```

**Step Five**
Compile the program's source code (and support interworking):

```
arm-pe-gcc -O2 -c prog.c -mthumb-interwork
```

If instead, the DLL was an old, ARM DLL which does not support interworking, and which cannot be rebuilt, then these steps would be used.

**Step One**
Skip. If you do not have access to the sources of a DLL, there is no point in building a `.def' file for it.

**Step Two**
*Step Three
Skip. Without a `.def' file you cannot use dlltool to build an
exports file or a library file.

*Step Four
Skip. Without a set of DLL object files you cannot build the DLL.
Besides it has already been built for you by somebody else.

*Step Five
Compile the program's source code, this is the same as before:

    arm-pe-gcc -O2 -c prog.c

*Step Six
Link together the program and the DLL's library file, passing the
`--support-old-code' option to the linker:

    arm-pe-gcc prog.o example.a -Wl,--support-old-code -o prog

Ignore the warning message about the input file not supporting
interworking as the --support-old-code switch has taken care if this.


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are permitted in any medium without royalty provided the copyright
notice and this notice are preserved.
This is a patched version of zlib modified to use
Pentium-optimized assembly code in the deflation algorithm. The files
changed/added by this patch are:

README.586
match.S

The effectiveness of these modifications is a bit marginal, as the the
program's bottleneck seems to be mostly L1-cache contention, for which
there is no real way to work around without rewriting the basic
algorithm. The speedup on average is around 5-10% (which is generally
less than the amount of variance between subsequent executions).
However, when used at level 9 compression, the cache contention can
drop enough for the assembly version to achieve 10-20% speedup (and
sometimes more, depending on the amount of overall redundancy in the
files). Even here, though, cache contention can still be the limiting
factor, depending on the nature of the program using the zlib library.
This may also mean that better improvements will be seen on a Pentium
with MMX, which suffers much less from L1-cache contention, but I have not yet verified this.

Note that this code has been tailored for the Pentium in particular, and will not perform well on the Pentium Pro (due to the use of a partial register in the inner loop).

If you are using an assembler other than GNU as, you will have to translate match.S to use your assembler's syntax. (Have fun.)

Brian Raiter
breadbox@muppetlabs.com
April, 1998

Added for zlib 1.1.3:

The patches come from
http://www.muppetlabs.com/~breadbox/software/assembly.html

To compile zlib with this asm file, copy match.S to the zlib directory then do:

    CFLAGS="-O3 -DASMV" ./configure
    make OBJA=match.o

This is a patched version of zlib, modified to use Pentium-Pro-optimized assembly code in the deflation algorithm. The files changed/added by this patch are:

    README.686
    match.S

The speedup that this patch provides varies, depending on whether the compiler used to build the original version of zlib falls afoul of the PPro's speed traps. My own tests show a speedup of around 10-20% at the default compression level, and 20-30% using -9, against a version compiled using gcc 2.7.2.3. Your mileage may vary.

Note that this code has been tailored for the PPro/PII in particular, and will not perform particularly well on a Pentium.

If you are using an assembler other than GNU as, you will have to translate match.S to use your assembler's syntax. (Have fun.)

Brian Raiter
breadbox@muppetlabs.com
April, 1998
Added for zlib 1.1.3:

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To compile zlib with this asm file, copy match.S to the zlib directory
then do:

CFLAGS="-O3 -DASMV" ./configure
make OBJA=match.o

Kjetil S. Matheussen's notes (28-11-2000)

Compiles under SAS/C again. Should also still compile under other
amiga compilers without big changes. I haven't checked if it still
works under gcc, because I don't have gcc for amiga. But I have
updated 'Makefile', and hope it compiles fine.

WHATS NEW:

1. Made a pretty big effort in preventing GCs allocating-functions from returning
chip-mem.

The lower part of the new file AmigaOS.c does this in various ways, mainly by
wrapping GC_malloc, GC_malloc_atomic, GC_malloc_uncollectable,
GC_malloc_atomic_uncollectable, GC_malloc_stubborn, GC_malloc_ignore_off_page
and GC_malloc_atomic_ignore_off_page. GC_realloc is also wrapped, but
doesn't do the same effort in preventing to return chip-mem.
Other allocating-functions (f.ex. GC_*_typed_) can probably be
used without any problems, but beware that the warn hook will not be called.
In case of problems, don't define GC_AMIGA_FASTALLOC.

Programs using more time actually using the memory allocated
(instead of just allocate and free rapidly) have
the most to earn on this, but even gctest now normally runs twice
as fast and uses less memory, on my poor 8MB machine.

The changes have only effect when there is no more
fast-mem left. But with the way GC works, it
could happen quite often. Beware that an atexit handler had to be added,
so using the abort() function will make a big memory-loss.
If you absolutely must call abort() instead of exit(), try calling
the GC_amiga_free_all_mem function before abort().

New amiga-spesific compilation flags:
GC_AMIGA_FASTALLOC - By NOT defining this option, GC will work like before,
it will not try to force fast-mem out of the OS, and
it will use normal calloc for allocation, and the rest
of the following flags will have no effect.

GC_AMIGA_ONLYFAST - Makes GC never to return chip-mem. GC_AMIGA_RETRY have
no effect if this flag is set.

GC_AMIGA_GC - If gc returns NULL, do a GC_gcollect, and try again. This
usually is a success with the standard GC configuration.
It is also the most important flag to set to prevent
GC from returning chip-mem. Beware that it slows down a lot
when a program is rapidly allocating/deallocating when
there is either very little fast-memory left or very little
chip-memory left. Its not a very common situation, but gctest
sometimes (very rare) use many minutes because of this.

GC_AMIGA_RETRY - If gc succeed allocating memory, but it is chip-mem,
try again and see if it is fast-mem. Most of the time,
it will actually return fast-mem for the second try.
I have set max number of retries to 9 or size/5000. You
can change this if you like. (see GC_amiga_rec_alloc())

GC_AMIGA_PRINTSTATS - Gather some statistics during the execution of a
program, and prints out the info when the atexit-handler
is called.

My recommendation is to set all this flags, except GC_AMIGA_PRINTSTATS and
GC_AMIGA_ONLYFAST.

If your program demands high response-time, you should
not define GC_AMIGA_GC, and possible also define GC_AMIGA_ONLYFAST.
GC_AMIGA_RETRY does not seem to slow down much.

Also, when compiling up programs, and GC_AMIGA_FASTALLOC was not defined when
compiling gc, you can define GC_AMIGA_MAKINGLIB to avoid having these allocation-
functions wrapped. (see gc.h)

Note that GC_realloc must not be called before any of
the other above mentioned allocating-functions have been called. (shouldn't be
any programs doing so either, I hope).

Another note. The allocation-function is wrapped when defining
GC_AMIGA_FASTALLOC by letting the function go thru the new
GC_amiga_allocwrapper_do function-pointer (see gc.h). Means that
sending function-pointers, such as GC_malloc, GC_malloc_atomic, etc.,
for later to be called like f.ex this, (*GC_malloc_functionpointer)(size),
will not wrap the function. This is normally not a big problem, unless
all allocation function is called like this, which will cause the
atexit un-allocating function never to be called. Then you either
have to manually add the atexit handler, or call the allocation-
functions function-pointer functions like this:
(*GC_amiga_allocwrapper_do)(size,GC_malloc_functionpointer).
There are probably better ways this problem could be handled, unfortunately,
I didn't find any without rewriting or replacing a lot of the GC-code, which
I really didn't want to. (Making new GC_malloc_* functions, and just
define f.ex GC_malloc as GC_amiga_malloc should allso work).

New amiga-spefic function:

    void GC_amiga_set_toany(void (*func)(void));

'func' is a function that will be called right before gc has to change
allocation-method from MEMF_FAST to MEMF_ANY. Ie. when it is likely
it will return chip-mem.

2. A few small compiler-spefisic additions to make it compile with SAS/C again.

3. Updated and rewritten the smakefile, so that it works again and that
the "unnecesarry" 'SCOPTIONS' files could be removed. Allso included
the cord-smakefile stuff in the main smakefile, so that the cord smakefile
could be removed too. By writing smake -f Smakefile.smk, both gc.lib and
cord.lib will be made.

STILL MISSING:

Programs can not be started from workbench, at least not for SAS/C. (Martin
Tauchmanns note about that it now works with workbench is definitely wrong
when concerning SAS/C). I guess it works if you use the old "#if 0'ed"-code,
but I haven't tested it. I think the reason for MT to replace the
"#if 0'ed"-code was only because it was a bit to SAS/C-spefisic. But I
don't know. An iconx-script solves this problem anyway.

BEWARE!

-To run gcetest, set the stack to around 200000 bytes first.
-SAS/C-spefisic: cord will crash if you compile gc.lib with
either parm=reg or parm=both. (missing legal prototypes for
function-pointers someplace is the reason I guess.).
tested with software: Radium, http://www.stud.ifi.uio.no/~ksvalast/radium/

tested with hardware: MC68060

-ksvalast@ifi.uio.no

===========================================================================
Martin Tauchmann's notes (1-Apr-99)
===========================================================================

Works now, also with the GNU-C compiler V2.7.2.1.
<ftp://ftp.unina.it/pub/amiga/geekgadgets/amiga/m68k/snapshots/971125/amiga-bin/>
Modify the `Makefile`
CC=cc $(ABI_FLAG)
to
CC=gcc $(ABI_FLAG)

TECHNICAL NOTES

- `GC_get_stack_base()`, `GC_register_data_segments()` works now with every
  C compiler; also Workbench.

- Removed AMIGA_SKIP_SEG, but the Code-Segment must not be scanned by GC.

PROBLEMS
- When the Linker, does`t merge all Code-Segments to an single one. LD of GCC
do it always.

- With ixemul.library V47.3, when an GC program launched from another program
  (example: `Make` or `if_mach M68K AMIGA getest`), `GC_register_data_segments()`
found the Segment-List of the caller program.
  Can be fixed, if the run-time initialization code (for C programs, usually *crt0*)
support `__data` and `__bss`.

- PowerPC Amiga currently not supported.

- Dynamic libraries (dyn_load.c) not supported.

TESTED WITH SOFTWARE

`Optimized Oberon 2 C` (oo2c) <http://cognac.informatik.uni-kl.de/download/index.html>
TESTED WITH HARDWARE

MC68030

CONTACT

Please, contact me at <martintauchmann@bigfoot.com>, when you change the Amiga port. <http://martintauchmann.home.pages.de>

===========================================================================

Michel Schinz's notes

===========================================================================

WHO DID WHAT

The original Amiga port was made by Jesper Peterson. I (Michel Schinz) modified it slightly to reflect the changes made in the new official distributions, and to take advantage of the new SAS/C 6.x features. I also created a makefile to compile the "cord" package (see the cord subdirectory).

TECHNICAL NOTES

In addition to Jesper's notes, I have the following to say:

- Starting with version 4.3, gctest checks to see if the code segment is added to the root set or not, and complains if it is. Previous versions of this Amiga port added the code segment to the root set, so I tried to fix that. The only problem is that, as far as I know, it is impossible to know which segments are code segments and which are data segments (there are indeed solutions to this problem, like scanning the program on disk or patch the LoadSeg functions, but they are rather complicated). The solution I have chosen (see os_dep.c) is to test whether the program counter is in the segment we are about to add to the root set, and if it is, to skip the segment. The problems are that this solution is rather awkward and that it works only for one code segment. This means that if your program has more than one code segment, all of them but one will be added to the root set. This isn't a big problem in fact, since the collector will continue to work correctly, but it may be slower.

Anyway, the code which decides whether to skip a segment or not can be removed simply by not defining AMIGA_SKIP_SEG. But notice that if you do so, gctest will complain (it will say that "GC_is_visible produced wrong failure indication"). However, it may be useful if you happen to have pointers stored in a code segment (you really shouldn't).

If anyone has a good solution to the problem of finding, when a program is loaded in memory, whether a segment is a code or a data segment,
please let me know.

PROBLEMS

If you have any problem with this version, please contact me at schinz@alphanet.ch (but do *not* send long files, since we pay for every mail!).

===========================================================================

Jesper Peterson's notes

===========================================================================

ADDITIONAL NOTES FOR AMIGA PORT

These notes assume some familiarity with Amiga internals.

WHY I PORTED TO THE AMIGA

The sole reason why I made this port was as a first step in getting the Sather(*) language on the Amiga. A port of this language will be done as soon as the Sather 1.0 sources are made available to me. Given this motivation, the garbage collection (GC) port is rather minimal.

(*) For information on Sather read the comp.lang.sather newsgroup.

LIMITATIONS

This port assumes that the startup code linked with target programs is that supplied with SAS/C versions 6.0 or later. This allows assumptions to be made about where to find the stack base pointer and data segments when programs are run from WorkBench, as opposed to running from the CLI. The compiler dependent code is all in the GC_get_stack_base() and GC_register_data_segments() functions, but may spread as I add Amiga specific features.

Given that SAS/C was assumed, the port is set up to be built with "smake" using the "SMakefile". Compiler options in "SCoptions" can be set with "scopts" program. Both "smake" and "scopts" are part of the SAS/C commercial development system.

In keeping with the porting philosophy outlined above, this port will not behave well with Amiga specific code. Especially not inter-process comms via messages, and setting up public structures like Intuition objects or anything else in the system lists. For the time being the use of this library is limited to single threaded ANSI/POSIX compliant or near-compliant code. (ie. Stick to stdio for now). Given this limitation there is currently no mechanism for
allocating "CHIP" or "PUBLIC" memory under the garbage collector. I'll add this after giving it considerable thought. The major problem is the entire physical address space may have to me scanned, since there is no telling who we may have passed memory to.

If you allocate your own stack in client code, you will have to assign the pointer plus stack size to GC_stackbottom.

The initial stack size of the target program can be compiled in by setting the __stack symbol (see SAS documentaion). It can be over-ridden from the CLI by running the AmigaDOS "stack" program, or from the WorkBench by setting the stack size in the tool types window.

SAS/C COMPILER OPTIONS (SCoptions)

You may wish to check the "CPU" code option is appropriate for your intended target system.

Under no circumstances set the "StackExtend" code option in either compiling the library or *ANY* client code.

All benign compiler warnings have been suppressed. These mainly involve lack of prototypes in the code, and dead assignments detected by the optimizer.

THE GOOD NEWS

The library as it stands is compatible with the GigaMem commercial virtual memory software, and probably similar PD software.

The performance of "gctest" on an Amiga 2630 (68030 @ 25Mhz) compares favourably with an HP9000 with similar architecture (a 325 with a 68030 I think).

-----------------------------------------------------------------------
The Amiga port has been brought to you by:

Jesper Peterson.

jep@mtiame.mtia.oz.au (preferred, but 1 week turnaround)
jep@orca1.vic.design.telecom.au (that's orca<one>, 1 day turnaround)

At least one of these addresses should be around for a while, even though I don't work for either of the companies involved.

From: Margaret Fleck
Here's the key details of what worked for me, in case anyone else needs them. There may well be better ways to do some of this, but ....

-- Margaret

The badge4 has a StrongArm-1110 processor and a StrongArm-1111 coprocessor.

Assume that the garbage collector distribution is unpacked into /home/arm/gc6.0, which is visible to both the ARM machine and a linux desktop (e.g. via NFS mounting).

Assume that you have a file /home/arm/config.site with contents something like the example attached below. Notice that our local ARM toolchain lives in /skiff/local.

Go to /home/arm/gc6.0 directory. Do
CONFIG_SITE=/home/arm/config.site ./configure --target=arm-linux --prefix=/home/arm/gc6.0

On your desktop, do:
make
make install
The main garbage collector library should now be in ../gc6.0/lib/libgc.so.

To test the garbage collector, first do the following on your desktop
make gctest
./gctest
Then do the following on the ARM machine
cd .libs
./lt-gctest

Do not try to do "make test" (the usual way of running the test program). This does not work and seems to erase some of the important files.

The gctest program claims to have succeedeed. Haven't run any further tests with it, though I'll be doing so in the near future.

# config.site for configure
# Modified from the one provided by Bradley D. LaRonde
# Edited by Andrej Cedilnik <acedil1@csee.umbc.edu>
# Used some of solutions by Tilman Vogel <Tilman.Vogel@web.de>
# Ported for iPAQ Familiar by Oliver Kurth <oliver.kurth@innominate.com>
# Further modified by Margaret Fleck for the badge4

HOSTCC=gcc
# Names of the cross-compilers
CC=/skiff/local/bin/arm-linux-gcc
CXX=/skiff/local/bin/arm-linux-gcc

# The cross compiler specific options
CFLAGS="-O2 -fno-exceptions"
CXXFLAGS="-O2 -fno-exceptions"
CPPFLAGS="-O2 -fno-exceptions"
LDFLAGS=""

# Some other programs
AR=/skiff/local/bin/arm-linux-ar
RANLIB=/skiff/local/bin/arm-linux-ranlib
NM=/skiff/local/bin/arm-linux-nm
ac_cv_path_NM=/skiff/local/bin/arm-linux-nm
ac_cv_func_setpgrp_void=yes
x_includes=/skiff/local/arm-linux/include/X11
x_libraries=/skiff/local/arm-linux/lib/X11

As of GC6.0alpha8, we attempt to support GNU-style builds based on automake,
autoconf and libtool. This is based almost entirely on Tom Tromey's work
with gcj.

To build and install libraries use

configure; make; make install

The advantages of this process are:

1) It should eventually do a better job of automatically determining the
right compiler to use, etc. It probably already does in some cases.

2) It tries to automatically set a good set of default GC parameters for
the platform (e.g. thread support). It provides an easier way to configure
some of the others.

3) It integrates better with other projects using a GNU-style build process.

4) It builds both dynamic and static libraries.

The known disadvantages are:

1) The build scripts are much more complex and harder to debug (though largely
standard). I don't understand them all, and there's probably lots of redundant
stuff.

2) It probably doesn't work on all Un*x-like platforms yet. It probably will
never work on the rest.
3) The scripts are not yet complete. Some of the standard GNU targets don't yet work. (Corrections/additions are very welcome.)

The distribution should contain all files needed to run "configure" and "make", as well as the sources needed to regenerate the derived files. (If I missed some, please let me know.)

Note that the distribution comes with a "Makefile" which will be overwritten by "configure" with one that is not at all equiavelenent to the original. The distribution contains a copy of the original "Makefile" in "Makefile.direct".

Important options to configure:

```
--prefix=PREFIX    install architecture-independent files in PREFIX
                   [/usr/local]
--exec-prefix=EPREFIX install architecture-dependent files in EPREFIX
                   [same as prefix]
--enable-threads=TYPE  choose threading package
--enable-parallel-mark parallelize marking and free list construction
--enable-full-debuginclude full support for pointer backtracing etc.
```

Unless --prefix is set (or --exec-prefix or one of the more obscure options), make install will install libgc.a and libgc.so in /usr/local/bin, which would typically require the "make install" to be run as root.

Most commonly --enable-threads=posix or will be needed. --enable-parallel-mark is recommended for multiprocessors if it is supported on the platform.

Reporting Bugs in the GNU Compiler Collection for DIST
========================================================

Before reporting a bug, please
---------------------------------

- Check that the behaviour really is a bug. Have a look into some ANSI standards document.

- Check the list of well known bugs: http://gcc.gnu.org/bugs.html#known

- Try to reproduce the bug with a current GCC development snapshot. You usually can get a recent development snapshot from the gcc-snapshot ifelse(DIST,`Debian',`dnl
package in the unstable (or experimental) distribution.

See: http://packages.debian.org/gcc-snapshot
     ', DIST, `Ubuntu',`dnl
package in the current development distribution.
See: http://archive.ubuntu.com/ubuntu/pool/universe/g/gcc-snapshot/
')dnl

- Try to find out if the bug is a regression (an older GCC version does not show the bug).

- Check if the bug is already reported in the bug tracking systems.

ifelse(DIST,`Debian',`dnl
  Debian:  http://bugs.debian.org/debian-gcc@lists.debian.org
', DIST, `Ubuntu',`dnl
  Ubuntu:  https://bugs.launchpad.net/~ubuntu-toolchain/+packagebugs
    Debian:  http://bugs.debian.org/debian-gcc@lists.debian.org
')dnl
Upstream: http://gcc.gnu.org/bugzilla/

Where to report a bug
---------------------

ifelse(DIST,`Debian',`dnl
Please report bugs found in the packaging of GCC to the Debian bug tracking system. See http://www.debian.org/Bugs/ for instructions (or use the reportbug script).
', DIST, `Ubuntu',`dnl
Please report bugs found in the packaging of GCC to Launchpad. See below how issues should be reported.
')dnl

DIST's current policy is to closely follow the upstream development and only apply a minimal set of patches (which are summarized in the README.Debian document).

ifelse(DIST,`Debian',`dnl
If you think you have found an upstream bug, you did check the section above ("Before reporting a bug") and are able to provide a complete bug report (see below "How to report a bug"), then you may help the Debian GCC package maintainers, if you report the bug upstream and then submit a bug report to the Debian BTS and tell us the upstream report number. This way you are able to follow the upstream bug handling as well. If in doubt, report the bug to the Debian BTS (but read "How to report a bug" below).
', DIST, `Ubuntu',`dnl
If you think you have found an upstream bug, you did check the section above ("Before reporting a bug") and are able to provide a complete bug report (see below "How to report a bug"), then you may help the Ubuntu GCC package maintainers, if you report the bug upstream and then submit
a bug report to Launchpad and tell us the upstream report number. This way you are able to follow the upstream bug handling as well. If in doubt, report the bug to Launchpad (but read "How to report a bug" below).

Report the issue to https://bugs.launchpad.net/ubuntu/+source/SRCNAME.

How to report a bug

-------------------

There are complete instructions in the gcc info manual (found in the gcc-doc package), section Bugs.

The manual can be read using `M-x info' in Emacs, or if the GNU info program is installed on your system by `info --node "(gcc)Bugs"'. Or see the file BUGS included with the gcc source code.

Online bug reporting instructions can be found at

http://gcc.gnu.org/bugs.html

[Some paragraphs taken from the above URL]

The main purpose of a bug report is to enable us to fix the bug. The most important prerequisite for this is that the report must be complete and self-contained, which we explain in detail below.

Before you report a bug, please check the list of well-known bugs and, if possible in any way, try a current development snapshot.

Summarized bug reporting instructions

-----------------------------

What we need

Please include in your bug report all of the following items, the first three of which can be obtained from the output of gcc -v:

* the exact version of GCC;
* the system type;
* the options given when GCC was configured/built;
* the complete command line that triggers the bug;
* the compiler output (error messages, warnings, etc.); and
* the preprocessed file (*.i*) that triggers the bug, generated by adding -save-temps to the complete compilation command, or, in the case of a bug report for the GNAT front end, a complete set of source files (see below).
What we do not want

* A source file that #includes header files that are left out of the bug report (see above)
* That source file and a collection of header files.
* An attached archive (tar, zip, shar, whatever) containing all (or some :-) of the above.
* A code snippet that won't cause the compiler to produce the exact output mentioned in the bug report (e.g., a snippet with just a few lines around the one that apparently triggers the bug, with some pieces replaced with ellipses or comments for extra obfuscation :-)
* The location (URL) of the package that failed to build (we won't download it, anyway, since you've already given us what we need to duplicate the bug, haven't you? :-)
* An error that occurs only some of the times a certain file is compiled, such that retrying a sufficient number of times results in a successful compilation; this is a symptom of a hardware problem, not of a compiler bug (sorry)
* E-mail messages that complement previous, incomplete bug reports. Post a new, self-contained, full bug report instead, if possible as a follow-up to the original bug report
* Assembly files (*.s) produced by the compiler, or any binary files, such as object files, executables, core files, or precompiled header files
* Duplicate bug reports, or reports of bugs already fixed in the development tree, especially those that have already been reported as fixed last week :-)
* Bugs in the assembler, the linker or the C library. These are separate projects, with separate mailing lists and different bug reporting procedures
* Bugs in releases or snapshots of GCC not issued by the GNU Project. Report them to whoever provided you with the release
* Questions about the correctness or the expected behavior of certain constructs that are not GCC extensions. Ask them in forums dedicated to the discussion of the programming language

Known Bugs and Non-Bugs

-----------------------

[Please see /usr/share/doc/gcc/FAQ or http://gcc.gnu.org/faq.html first]

C++ exceptions don't work with C libraries

------------------------------------------
C++ exceptions don't work with C libraries, if the C code wasn't designed to be thrown through. A solution could be to translate all C libraries with -fexceptions. Mostly trying to throw an exception in a callback function (qsort, Tcl command callbacks, etc ...). Example:

```c
#include <stdio.h>
#include <tcl.h>

class A {}; 

static 
int SortCondition(void const*, void const*)
{
    printf("throwing 'sortcondition' exception\n");
    throw A();
}

int main(int argc, char *argv[])
{
    int list[2];

    try {
        SortCondition(NULL,NULL);
    } catch (A) {
        printf("caught test-sortcondition exception\n");
    }
    try {
        qsort(&list, sizeof(list)/sizeof(list[0]),sizeof(list[0]),
        &SortCondition);
    } catch (A) {
        printf("caught real-sortcondition exception\n");
    }
    return 0;
}

Andrew Macleod <amacleod@cygnus.com> responded:

When compiled with the table driven exception handling, exception can only be thrown through functions which have been compiled with the table driven EH. If a function isn’t compiled that way, then we do not have the frame unwinding information required to restore the registers when unwinding.

I believe the setjmp/longjmp mechanism will throw through things like this, but its produces much messier code. (-fsjlj-exceptions)

The C compiler does support exceptions, you just have to turn them on with -fexceptions.
Your main options are to:

a) Don't use callbacks, or at least don't throw through them.

b) Get the source and compile the library with -fexceptions (You have to explicitly turn on exceptions in the C compiler)

c) always use -fsjlj-exceptions (boo, bad choice :-)

g++: "undefined reference" to static const array in class

---------------------------------------------------------

The following code compiles under GNU C++ 2.7.2 with correct results, but produces the same linker error with GNU C++ 2.95.2.

Alexandre Oliva <oliva@lsd.ic.unicamp.br> responded:

All of them are correct. A static data member *must* be defined outside the class body even if it is initialized within the class body, but no diagnostic is required if the definition is missing. It turns out that some releases do emit references to the missing symbol, while others optimize it away.

#include <iostream>

class Test
{
   public:
      Test(const char *q);
   protected:
      static const unsigned char Jam_signature[4] = "JAM";
};

Test::Test(const char *q)
{
   if (memcmp(q, Jam_signature, sizeof(Jam_signature)) != 0)
      cerr << "Hello world!\n";
}

int main(void)
{
   Test::Test("JAM");
   return 0;
}

g++: g++ causes passing non const ptr to ptr to a func with const arg to cause an error (not a bug)

Example:
#include <stdio.h>
void test(const char **b){
    printf("%s\n",*b);
}
int main(void){
    char *test1="aoeu";
    test(&test1);
}

make const
g++ const.cc -o const
const.cc: In function `int main()':
const.cc:7: passing `char **' as argument 1 of `test(const char **)' adds cv-quals without intervening `const'
make: *** [const] Error 1

Answer from "Martin v. Loewis" <martin@loewis.home.cs.tu-berlin.de>:

> ok... maybe I missed something.. I haven't really kept up with the latest in
> C++ news. But I've never heard anything even remotely close to passing a non
> const var into a const arg being an error before.

Thanks for your bug report. This is a not a bug in the compiler, but
in your code. The standard, in 4.4/4, puts it that way

# A conversion can add cv-qualifiers at levels other than the first in
# multi-level pointers, subject to the following rules:
# Two pointer types T1 and T2 are similar if there exists a type T and
# integer n > 0 such that:
# T1 is cv(1,0) pointer to cv(1,1) pointer to ... cv(1,n-1)
# pointer to cv(1,n) T
# and
# T2 is cv(2,0) pointer to cv(2,1) pointer to ... cv(2,n-1)
# pointer to cv(2,n) T
# where each cv(i,j) is const, volatile, const volatile, or
# nothing. The n-tuple of cv-qualifiers after the first in a pointer
# type, e.g., cv(1,1) , cv(1,2) , ... , cv(1,n) in the pointer type
# T1, is called the cv-qualification signature of the pointer type. An
# expression of type T1 can be converted to type T2 if and only if the
# following conditions are satisfied:
# - the pointer types are similar.
# - for every j > 0, if const is in cv(1,j) then const is in cv(2,j) ,
#   and similarly for volatile.
# - if the cv(1,j) and cv(2,j) are different, then const is in every
#   cv(2,k) for 0 < k < j.

It is the last rule that your code violates. The standard gives then
the following example as a rationale:
# [Note: if a program could assign a pointer of type T** to a pointer of type const T** (that is, if line //1 below was allowed), a program could inadvertently modify a const object (as it is done on line //2). For example,

```cpp
int main() {
    const char c = 'c';
    char* pc;
    const char** pcc = &pc; //1: not allowed
    *pcc = &c;
    *pc = 'C'; //2: modifies a const object
}
```

- end note]

If you question this line of reasoning, please discuss it in one of the public C++ fora first, eg. comp.lang.c++.moderated, or comp.std.c++.

cpp removes blank lines

-------------

With the new cpp, you need to add -traditional to the "cpp -P" args, else blank lines get removed.

[EDIT ME: scan Debian bug reports and write some nice summaries ...]

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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That's all there is to it!
libstdc++ is an implementation of the Standard C++ Library, including the
Standard Template Library (i.e. as specified by ANSI and ISO).

Some notes on porting applications from libstdc++-2.90 (or earlier versions)
to libstdc++-v3 can be found in the libstdc++-6-4.3-doc package. After the
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file:///usr/share/doc/gcc-4.3-base/libstdc++/html/17_intro/porting-howto.html

On Debian GNU/Linux you find additional documentation in the
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http://www.sgi.com/tech/stl/

with a good, recent, book on C++.

A great deal of useful C++ documentation can be found in the C++ FAQ-Lite,
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Be careful not to use outdated mirrors.

Please send updates to this list as bug report for the g++ package.
This is a rough history of garbage collector bugs and versions.

This has been maintained with varying diligence over the years.

I made an attempt to include recent contributors here. I apologize for any
omissions.

-------------------------

Version 1.3 and immediately preceding versions contained spurious
assembly language assignments to TMP.SP. Only the assignment in the PC/RT
code is necessary. On other machines, with certain compiler options, the assignments can lead to an unsaved register being overwritten. Known to cause problems under SunOS 3.5 WITHOUT the -O option. (With -O the compiler recognizes it as dead code. It probably shouldn't, but that's another story.)

Version 1.4 and earlier versions used compile time determined values for the stack base. This no longer works on Sun 3s, since Sun 3/80s use a different stack base. We now use a straightforward heuristic on all machines on which it is known to work (incl. Sun 3s) and compile-time determined values for the rest. There should really be library calls to determine such values.

Version 1.5 and earlier did not ensure 8 byte alignment for objects allocated on a sparc based machine.

Version 1.8 added ULTRIX support in gc_private.h.

Version 1.9 fixed a major bug in gc_realloc.

Version 2.0 introduced a consistent naming convention for collector routines and added support for registering dynamic library data segments in the standard mark_roots.c. Most of the data structures were revamped. The treatment of interior pointers was completely changed. Finalization was added. Support for locking was added. Object kinds were added. We added a black listing facility to avoid allocating at addresses known to occur as integers somewhere in the address space. Much of this was accomplished by adapting ideas and code from the PCR collector. The test program was changed and expanded.

Version 2.1 was the first stable version since 1.9, and added support for PPCR.

Version 2.2 added debugging allocation, and fixed various bugs. Among them:
- GC_realloc could fail to extend the size of the object for certain large object sizes.
- A blatant subscript range error in GC_printf, which unfortunately wasn't exercised on machines with sufficient stack alignment constraints.
- GC_register_displacement did the wrong thing if it was called after any allocation had taken place.
- The leak finding code would eventually break after 2048 byte byte objects leaked.
- interface.c didn't compile.
- The heap size remained much too small for large stacks.
- The stack clearing code behaved badly for large stacks, and perhaps on HP/PA machines.

Version 2.3 added ALL_INTERIOR_POINTERS and fixed the following bugs:
- Missing declaration of etext in the A/UX version.
- Some PCR root-finding problems.
- Blacklisting was not 100% effective, because the plausible future heap bounds were being miscalculated.
- GC_realloc didn't handle out-of-memory correctly.
- GC_base could return a nonzero value for addresses inside free blocks.
- test.c wasn't really thread safe, and could erroneously report failure in a multithreaded environment. (The locking primitives need to be replaced for other threads packages.)
- GC_CONS was thoroughly broken.
- On a SPARC with dynamic linking, signals stayed diabled while the client code was running.
(Thanks to Manuel Serrano at INRIA for reporting the last two.)

Version 2.4 added GC_free_space_divisor as a tuning knob, added support for OS/2 and linux, and fixed the following bugs:
- On machines with unaligned pointers (e.g. Sun 3), every 128th word could fail to be considered for marking.
- Dynamic_load.c erroneously added 4 bytes to the length of the data and bss sections of the dynamic library. This could result in a bad memory reference if the actual length was a multiple of a page. (Observed on Sun 3. Can probably also happen on a Sun 4.)
(Thanks to Robert Brazile for pointing out that the Sun 3 version was broken. Dynamic library handling is still broken on Sun 3s under 4.1.1U1, but apparently not 4.1.1. If you have such a machine, use -Bstatic.)

Version 2.5 fixed the following bugs:
- Removed an explicit call to exit(1)
- Fixed calls to GC_printf and GC_err_printf, so the correct number of arguments are always supplied. The OS/2 C compiler gets confused if the number of actuals and the number of formals differ. (ANSI C doesn't require this to work. The ANSI sanctioned way of doing things causes too many compatibility problems.)

Version 3.0 added generational/incremental collection and stubborn objects.

Version 3.1 added the following features:
- A workaround for a SunOS 4.X SPARC C compiler misfeature that caused problems when the collector was turned into a dynamic library.
- A fix for a bug in GC_base that could result in a memory fault.
- A fix for a performance bug (and several other misfeatures) pointed out by Dave Detlefs and Al Dosser.
- Use of dirty bit information for static data under Solaris 2.X.
- DEC Alpha/OSF1 support (thanks to Al Dosser).
- Incremental collection on more platforms.
- A more refined heap expansion policy. Less space usage by default.
- Various minor enhancements to reduce space usage, and to reduce the amount of memory scanned by the collector.
- Uncollectable allocation without per object overhead.
- More conscientious handling of out-of-memory conditions.
- Fixed a bug in debugging stubborn allocation.
- Fixed a bug that resulted in occasional erroneous reporting of smashed objects with debugging allocation.
- Fixed bogus leak reports of size 4096 blocks with FIND_LEAK.

Version 3.2 fixed a serious and not entirely repeatable bug in the incremental collector. It appeared only when dirty bit info on the roots was available, which is normally only under Solaris. It also added GC_general_register_disappearing_link, and some testing code. Interface.c disappeared.

Version 3.3 fixes several bugs and adds new ports:
- PCR-specific bugs.
- Missing locking in GC_free, redundant FASTUNLOCK in GC_malloc_stubborn, and 2 bugs in GC_unregister_disappearing_link.
All of the above were pointed out by Neil Sharman (neil@cs.mu.oz.au).
- Common symbols allocated by the SunOS4.X dynamic loader were not included in the root set.
- Bug in GC_finalize (reported by Brian Beuning and Al Dosser)
- Merged Amiga port from Jesper Peterson (untested)
- Merged NeXT port from Thomas Funke (significantly modified and untested)

Version 3.4:
- Fixed a performance bug in GC_realloc.
- Updated the amiga port.
- Added NetBSD and 386BSD ports.
- Added cord library.
- Added trivial performance enhancement for ALL_INTERIOR_POINTERS. (Don't scan last word.)

Version 3.5
- Minor collections now mark from roots only once, if that doesn't cause an excessive pause.
- The stack clearing heuristic was refined to prevent anomalies with very heavily recursive programs and sparse stacks.
- Fixed a bug that prevented mark stack growth in some cases. GC_objects_are_marked should be set to TRUE after a call to GC_push_roots and as part of GC_push_marked, since both can now set mark bits. I think this is only a performance bug, but I wouldn't bet on it. It's certainly very hard to argue that the old version was correct.
- Fixed an incremental collection bug that prevented it from working at all when HBLKSIZE != getpagesize()
- Changed dynamic_loading.c to include gc_priv.h before testing DYNAMIC_LOADING. SunOS dynamic library scanning must have been broken in 3.4.
- Object size rounding now adapts to program behavior.
- Added a workaround (provided by Manuel Serrano and colleagues) to a long-standing SunOS 4.X (and 3.X?) ld bug that I had incorrectly assumed to have been squished. The collector was broken if the text segment size was within 32 bytes of a multiple of 8K bytes, and if the beginning of the data segment contained interesting roots. The workaround assumes a demand-loadable executable. The original may have have "worked" in some other cases.
- Added dynamic library support under IRIX5.
- Added support for EMX under OS/2 (thanks to Ari Huttunen).

Version 3.6:
- fixed a bug in the mark stack growth code that was introduced in 3.4.
- fixed Makefile to work around DEC AXP compiler tail recursion bug.

Version 3.7:
- Added a workaround for an HP/UX compiler bug.
- Fixed another stack clearing performance bug. Reworked that code once more.

Version 4.0:
- Added support for Solaris threads (which was possible only by reimplementing some fraction of Solaris threads, since Sun doesn't currently make the thread debugging interface available).
- Added non-threads win32 and win32S support.
- (Grudgingly, with suitable muttering of obscenities) renamed files so that the collector distribution could live on a FAT file system. Files that are guaranteed to be useless on a PC still have long names. Gc_inline.h and gc_private.h still exist, but now just include gc_inl.h and gc_priv.h.
- Fixed a really obscure bug in finalization that could cause undetected mark stack overflows. (I would be surprised if any real code ever tickled this one.)
- Changed finalization code to dynamically resize the hash tables it maintains. (This probably does not matter for well-written code. It no doubt does for C++ code that overuses destructors.)
- Added typed allocation primitives. Rewrote the marker to accommodate them with more reasonable efficiency. This
change should also speed up marking for GC_malloc allocated objects a little. See gc_typed.h for new primitives.
- Improved debugging facilities slightly. Allocation time stack traces are now kept by default on SPARC/SUNOS4. (Thanks to Scott Schwartz.)
- Added better support for small heap applications.
- Significantly extended cord package. Fixed a bug in the implementation of lazily read files. Printf and friends now have cord variants. Cord traversals are a bit faster.
- Made ALL_INTERIOR_POINTERS recognition the default.
- Fixed de so that it can run in constant space, independent of file size. Added simple string searching to cords and de.
- Added the Hull-Ellis C++ interface.
- Added dynamic library support for OSF/1. (Thanks to Al Dosser and Tim Bingham at DEC.)
- Changed argument to GC_expand_hp to be expressed in units of bytes instead of heap blocks. (Necessary since the heap block size now varies depending on configuration. The old version was never very clean.)
- Added GC_get_heap_size(). The previous "equivalent" was broken.
- Restructured the Makefile a bit.

Since version 4.0:
- Changed finalization implementation to guarantee that finalization procedures are called outside of the allocation lock, making direct use of the interface a little less dangerous. MAY BREAK EXISTING CLIENTS that assume finalizers are protected by a lock. Since there seem to be few multithreaded clients that use finalization, this is hopefully not much of a problem.
- Fixed a gross bug in CORD_prev.
- Fixed a bug in blacklst.c that could result in unbounded heap growth during startup on machines that do not clear memory obtained from the OS (e.g. win32S).
- Ported de editor to win32/win32S. (This is now the only version with a mouse-sensitive UI.)
- Added GC_malloc_ignore_off_page to allocate large arrays in the presence of ALL_INTERIOR_POINTERS.
- Changed GC_call_with_alloc_lock to not disable signals in the single-threaded case.
- Reduced retry count in GC_collect_or_expand for garbage collecting when out of memory.
- Made uncollectable allocations bypass black-listing, as they should.
- Fixed a bug in typed_test in test.c that could cause (legitimate) GC crashes.
- Fixed some potential synchronization problems in finalize.c
- Fixed a real locking problem in typd_mlc.c.
- Worked around an AIX 3.2 compiler feature that results in out of bounds memory references.
- Partially worked around an IRIX5.2 beta problem (which may or may not persist to the final release).
- Fixed a bug in the heap integrity checking code that could result in explicitly deallocated objects being identified as smashed. Fixed a bug in the dbg_mlc stack saving code that caused old argument pointers to be considered live.
- Fixed a bug in CORD_ncmp (and hence CORD_str).
- Repaired the OS2 port, which had suffered from bit rot in 4.0. Worked around what appears to be CSet/2 V1.0 optimizer bug.
- Fixed a Makefile bug for target "c++".

Since version 4.1:
- Multiple bug fixes/workarounds in the Solaris threads version. (It occasionally failed to locate some register contents for marking. It also turns out that thr_suspend and friends are unreliable in Solaris 2.3. Dirty bit reads appear to be unreliable under some weird circumstances. My stack marking code contained a serious performance bug. The new code is extremely defensive, and has not failed in several cpu hours of testing. But no guarantees ...)
- Added MacOS support (thanks to Patrick Beard.)
- Fixed several syntactic bugs in gc_c++.h and friends. (These didn't bother g++, but did bother most other compilers.)
- Fixed gc_c++.h finalization interface. (It didn't.)
- 64 bit alignment for allocated objects was not guaranteed in a few cases in which it should have been.
- Added GC_malloc_atomic_ignore_off_page.
- Added GC_collect_a_little.
- Added some prototypes to gc.h.
- Some other minor bug fixes (notably in Makefile).
- Fixed OS/2 / EMX port (thanks to Ari Huttunen).
- Fixed AmigaDOS port. (thanks to Michel Schinz).
- Fixed the DATASTART definition under Solaris. There was a 1 in 16K chance of the collector missing the first 64K of static data (and thus crashing).
- Fixed some blatant anachronisms in the README file.
- Fixed PCR-Makefile for upcoming PPCR release.

Since version 4.2:
- Fixed SPARC alignment problem with GC_DEBUG.
- Fixed Solaris threads /proc workaround. The real problem was an interaction with mprotect.
- Incorporated fix from Patrick Beard for gc_c++.h (now gc_cpp.h).
- Slightly improved allocator space utilization by fixing the GC_size_map mechanism.
- Integrated some Sony News and MIPS RISCos 4.51 patches. (Thanks to Nobuyuki Hikichi of Software Research Associates, Inc. Japan)
- Fixed HP_PA alignment problem. (Thanks to xjam@cork.cs.berkeley.edu.)
- Added GC_same_obj and friends. Changed GC_base to return 0 for pointers past the end of large objects.
- Improved GC_base performance with ALL_INTERIOR_POINTERS on machines with a slow integer mod operation.
- Added GC_PTR_ADD, GC_PTR_STORE, etc. to prepare for preprocessor.
- Changed the default on most UNIX machines to be that signals are not disabled during critical GC operations. This is still ANSI-conforming, though somewhat dangerous in the presence of signal handlers. But the performance cost of the alternative is sometimes problematic. Can be changed back with a minor Makefile edit.
- Renamed IS_STRING in gc.h, to CORD_IS_STRING, thus following my own naming convention. Added the function CORD_to_const_char_star.
- Fixed a gross bug in GC_finalize. Symptom: occasional address faults in that function. (Thanks to Anselm Baird-Smith (Anselm.BairdSmith@inria.fr)
- Added port to ICL DRS6000 running DRS/NX. Restructured things a bit to factor out common code, and remove obsolete code. Collector should now run under SUNOS5 with either mprotect or /proc dirty bits. (Thanks to Douglas Steel (doug@wg.icl.co.uk)).
- More bug fixes and workarounds for Solaris 2.X. (These were mostly related to putting the collector in a dynamic library, which didn't really work before. Also SOLARIS_THREADS didn't interact well with dl_open.) Thanks to btlewis@eng.sun.com.
- Fixed a serious performance bug on the DEC Alpha. The text segment was getting registered as part of the root set. (Amazingly, the result was still fast enough that the bug was not conspicuous.) The fix works on OSF/1, version 1.3. Hopefully it also works on other versions of OSF/1 ...
- Fixed a bug in GC_clear_roots.
- Fixed a bug in GC_generic_malloc_words_small that broke gc_inl.h. (Reported by Antoine de Maricourt. I broke it in trying to tweak the Mac port.)
- Fixed some problems with cord/de under Linux.
- Fixed some cord problems, notably with CORD_riter4.
- Added DG/UX port.
- Thanks to Ben A. Mesander (ben@piglet.cr.usgs.gov)
- Added finalization registration routines with weaker ordering
constraints. (This is necessary for C++ finalization with multiple inheritance, since the compiler often adds self-cycles.)

- Filled the holes in the SCO port. (Thanks to Michael Arnoldus <chime@proinf.dk>.)
- John Ellis' additions to the C++ support: From John:

  * I completely rewrote the documentation in the interface gc_c++.h (later renamed gc_cpp.h). I've tried to make it both clearer and more precise.

  * The definition of accessibility now ignores pointers from an finalizable object (an object with a clean-up function) to itself. This allows objects with virtual base classes to be finalizable by the collector. Compilers typically implement virtual base classes using pointers from an object to itself, which under the old definition of accessibility prevented objects with virtual base classes from ever being collected or finalized.

  * gc_cleanup now includes gc as a virtual base. This was enabled by the change in the definition of accessibility.

  * I added support for operator new[]. Since most (all?) compilers don't yet support operator new[], it is conditionalized on -DOPERATOR_NEW_ARRAY. The code is untested, but its trivial and looks correct.

  * The test program test_gc_c++ (later renamed test_cpp.cc) tries to test for the C++-specific functionality not tested by the other programs.

- Added <unistd.h> include to misc.c. (Needed for ppcr.)
- Added PowerMac port. (Thanks to Patrick Beard again.)
- Fixed "srcdir"-related Makefile problems. Changed things so that all externally visible include files always appear in the include subdirectory of the source. Made gc.h directly includable from C++ code. (These were at Per Bothner's suggestion.)
- Changed Intel code to also mark from ebp (Kevin Warne's suggestion).
- Renamed C++ related files so they could live in a FAT file system. (Charles Fiterman's suggestion.)
- Changed Windows NT Makefile to include C++ support in gc.lib. Added C++ test as Makefile target.

Since version 4.3:
- ASM_CLEAR_CODE was erroneously defined for HP PA machines, resulting in a compile error.
- Fixed OS/2 Makefile to create a library. (Thanks to Mark Boulter (mboulter@vnet.ibm.com)).
- Gc_cleanup objects didn’t work if they were created on the stack. Fixed.
- One copy of Gc_cpp.h in the distribution was out of sync, and failed to document some known compiler problems with explicit destructor invocation. Partially fixed. There are probably other compilers on which gc_cleanup is miscompiled.
- Fixed Makefile to pass C compiler flags to C++ compiler.
- Added Mac fixes.
- Fixed os_dep.c to work around what appears to be a new and different VirtualQuery bug under newer versions of win32S.
- GC_non_gc_bytes was not correctly maintained by GC_free. Fixed. Thanks to James Clark (jjc@jclark.com).
- Added GC_set_max_heap_size.
- Changed allocation code to ignore blacklisting if it is preventing use of a very large block of memory. This has the advantage that naive code allocating very large objects is much more likely to work. The downside is you might no longer find out that such code should really use GC_mallocre_off_page.
- Changed GC_printf under win32 to close and reopen the file between calls. FAT file systems otherwise make the log file useless for debugging.
- Added GC_try_to_collect and GC_get_bytes_since_gc. These allow starting an abortable collection during idle times. This facility does not require special OS support. (Thanks to Michael Spertus of Geodesic Systems for suggesting this. It was actually an easy addition. Kumar Srikantan previously added a similar facility to a now ancient version of the collector. At the time this was much harder, and the result was less convincing.)
- Added some support for the Borland development environment. (Thanks to John Ellis and Michael Spertus.)
- Removed a misfeature from checksums.c that caused unexpected heap growth. (Thanks to Scott Schwartz.)
- Changed finalize.c to call WARN if it encounters a finalization cycle. WARN is defined in ge_priv.h to write a message, usually to stdout. In many environments, this may be inappropriate.
- Renamed NO_PARAMS in gc.h to GC_NO_PARAMS, thus adhering to my own naming convention.
- Added GC_set_warn_proc to intercept warnings.
- Fixed Amiga port. (Thanks to Michel Schinz (schinz@alphanet.ch).)
- Fixed a bug in mark.c that could result in an access to unmapped memory from GC_mark_from_mark_stack on machines with unaligned pointers.
- Fixed a win32 specific performance bug that could result in scanning of objects allocated with the system malloc.
- Added REDIRECT_MALLOC.
Since version 4.4:
- Fixed many minor and one major README bugs. (Thanks to Franklin Chen (chen@adi.com) for pointing out many of them.)
- Fixed ALPHA/OSF/1 dynamic library support. (Thanks to Jonathan Bachrach (jonathan@harlequin.com)).
- Added incremental GC support (M bytecode) for Linux (with some help from Bruno Haible).
- Altered SPARC recognition tests in gc.h and config.h (mostly as suggested by Fergus Henderson).
- Added basic incremental GC support for win32, as implemented by Windows NT and Windows 95. GC_enable_incremental is a noop under win32s, which doesn't implement enough of the VM interface.
- Added -DLARGE_CONFIG.
- Fixed GC_...ignore_off_page to also function without
  -DALL_INTERIOR_POINTERS.
- (Hopefully) fixed RS/6000 port. (Only the test was broken.)
- Fixed a performance bug in the nonincremental collector running
  on machines supporting incremental collection with MPROTECT_VDB
  (e.g. SunOS 4, DEC AXP). This turned into a correctness bug under
  win32s with win32 incremental collection. (Not all memory protection
  was disabled.)
- Fixed some ppc related bit rot.
- Caused dynamic libraries to be unregistered before reregistering.
  The old way turned out to be a performance bug on some machines.
- GC_root_size was not properly maintained under MSWIN32.
- Added -DNO_DEBUGGING and GC_dump.
- Fixed a couple of bugs arising with SOLARIS_THREADS +
  REDIRECT_MALLOC.
- Added NetBSD/M68K port. (Thanks to Peter Seebach
  <seebas@taniemarie.solon.com>.)
- Fixed a serious realloc bug. For certain object sizes, the collector
  wouldn't scan the expanded part of the object. (Thanks to Clay Spence
  (cds@peanut.sarnoff.com) for noticing the problem, and helping me to
  track it down.)

Since version 4.5:
- Added Linux ELF support. (Thanks to Arrigo Triulzi <arrigo@ic.ac.uk>.)
- GC_base crashed if it was called before any other GC_routines.
  This could happen if a gc_cleanup object was allocated outside the heap
  before any heap allocation.
- The heap expansion heuristic was not stable if all objects had finalization
  enabled. Fixed finalize.c to count memory in finalization queue and
  avoid explicit deallocation. Changed alloc.c to also consider this count.
  (This is still not recommended. It's expensive if nothing else.) Thanks
  to John Ellis for pointing this out.
- GC_malloc_uncollectable(0) was broken. Thanks to Phong Vo for pointing
  this out.
The collector didn't compile under Linux 1.3.X. (Thanks to Fred Gilham for pointing this out.) The current workaround is ugly, but expected to be temporary.

Fixed a formatting problem for SPARC stack traces.

Fixed some '=='s in os_dep.c that should have been assignments.
Fortunately these were in code that should never be executed anyway.
(Thanks to Fergus Henderson.)

Fixed the heap block allocator to only drop blacklisted blocks in small chunks. Made BL_LIMIT self adjusting. (Both of these were in response to heap growth observed by Paul Graham.)

Fixed the Metrowerks/68K Mac code to also mark from a6. (Thanks to Patrick Beard.)

Significantly updated README.debugging.

Fixed some problems with longjumps out of signal handlers, especially under Solaris. Added a workaround for the fact that siglongjmp doesn't appear to do the right thing with -lthread under Solaris.

Added MSDOS/djgpp port. (Thanks to Mitch Harris (maharri@uiuc.edu).)

Added "make reserved_namespace" and "make user_namespace". The first renames ALL "GC_xxx" identifiers as "_GC_xxx". The second is the inverse transformation. Note that doing this is guaranteed to break all clients written for the other names.

descriptor field for kind NORMAL in GC_obj_kinds with ADD_BYTE_AT_END defined should be -ALIGNMENT not WORDS_TO_BYTES(-1). This is a serious bug on machines with pointer alignment of less than a word.

GC_ignore_self_finalize_mark_proc didn't handle pointers to very near the end of the object correctly. Caused failures of the C++ test on a DEC Alpha with g++. gc_inl.h still had problems. Partially fixed. Added warnings at the beginning to hopefully specify the remaining dangers.

Added DATAEND definition to config.h.

Fixed some of the .h file organization. Fixed "make floppy".

Since version 4.6:

Fixed some compilation problems with -DCHECKSUMS (thanks to Ian Searle)

Updated some Mac specific files to synchronize with Patrick Beard.

Fixed a serious bug for machines with non-word-aligned pointers.
(Thanks to Patrick Beard for pointing out the problem. The collector should fail almost any conceivable test immediately on such machines.)

Since version 4.7:

Changed a "comment" in a MacOS specific part of mach-dep.c that caused gcc to fail on other platforms.

Since version 4.8

More README.debugging fixes.

Objects ready for finalization, but not finalized in the same GC cycle, could be prematurely collected. This occasionally happened in test_cpp.
- Too little memory was obtained from the system for very large objects. That could cause a heap explosion if these objects were not contiguous (e.g. under PCR), and too much of them was blacklisted.
- Due to an improper initialization, the collector was too hesitant to allocate blacklisted objects immediately after system startup.
- Moved GC_arrays from the data into the bss segment by not explicitly initializing it to zero. This significantly reduces the size of executables, and probably avoids some disk accesses on program startup. It's conceivable that it might break a port that I didn't test.
- Fixed EMX_MAKEFILE to reflect the gc_c++.h to gc_cpp.h renaming which occurred a while ago.

Since 4.9:
- Fixed a typo around a call to GC_collect_or_expand in alloc.c. It broke handling of out of memory. (Thanks to Patrick Beard for noticing.)

Since 4.10:
- Rationalized (hopefully) GC_try_to_collect in an incremental collection environment. It appeared to not handle a call while a collection was in progress, and was otherwise too conservative.
- Merged GC_reclaim_or_delete_all into GC_reclaim_all to get rid of some code.
- Added Patrick Beard's Mac fixes, with substantial completely untested modifications.
- Fixed the MPROTECT_VDB code to deal with large pages and imprecise fault addresses (as on an UltraSPARC running Solaris 2.5). Note that this was not a problem in the default configuration, which uses PROC_VDB.
- The DEC Alpha assembly code needed to restore $gp between calls. Thanks to Fergus Henderson for tracking this down and supplying a patch.
- The write command for "de" was completely broken for large files. I used the easiest portable fix, which involved changing the semantics so that f.new is written instead of overwriting f. That's safer anyway.
- Added README.solaris2 with a discussion of the possible problems of mixing the collector's sbk allocation with malloc/realloc.
- Changed the data segment starting address for SGI machines. The old code failed under IRIX6.
- Required double word alignment for MIPS.
- Various minor fixes to remove warnings.
- Attempted to fix some Solaris threads problems reported by Zhiying Chen. In particular, the collector could try to fork a thread with the world stopped as part of GC_thr_init. It also failed to deal with the case in which the original thread terminated before the whole process did.
- Added -DNO_EXECUTE_PERMISSION. This has a major performance impact on the incremental collector under Irix, and perhaps under other operating systems.
- Added some code to support allocating the heap with mmap. This may be preferable under some circumstances.
- Integrated dynamic library support for HP.
  (Thanks to Knut Tvedten <knuttv@ifi.uio.no>.)
- Integrated James Clark's win32 threads support, and made a number of changes to it, many of which were suggested by Pontus Rydin.
  This is still not 100% solid.
- Integrated Alistair Crooks' support for UTS4 running on an Amdahl 370-class machine.
- Fixed a serious bug in explicitly typed allocation. Objects requiring large descriptors where handled in a way that usually resulted in a segmentation fault in the marker. (Thanks to Jeremy Fitzhardinge for helping to track this down.)
- Added partial support for GNU win32 development. (Thanks to Fergus Henderson.)
- Added optional support for Java-style finalization semantics. (Thanks to Patrick Bridges.) This is recommended only for Java implementations.
- GC_malloc_uncollectable faulted instead of returning 0 when out of memory. (Thanks to dan@math.uiuc.edu for noticing.)
- Calls to GC_base before the collector was initialized failed on a DEC Alpha. (Thanks to Matthew Flatt.)
- Added base pointer checking to GC_REGISTER_FINALIZER in debugging mode, at the suggestion of Jeremy Fitzhardinge.
- GC_debug_realloc failed for uncollectable objects. (Thanks to Jeremy Fitzhardinge.)
- Explicitly typed allocation could crash if it ran out of memory.
  (Thanks to Jeremy Fitzhardinge.)
- Added minimal support for a DEC Alpha running Linux.
- Fixed a problem with allocation of objects whose size overflowed ptrdiff_t. (This now fails unconditionally, as it should.)
- Added the beginning of Irix pthread support.
- Integrated Xiaokun Zhu's fixes for djgpp 2.01.
- Added SGI-style STL allocator support (gc_alloc.h).
- Fixed a serious bug in README.solaris2. Multithreaded programs must include gc.h with SOLARIS_THREADS defined.
- Changed GC_free so it actually deallocates uncollectable objects.
  (Thanks to Peter Chubb for pointing out the problem.)
- Added Linux ELF support for dynamic libraries. (Thanks again to Patrick Bridges.)
- Changed the Borland cc configuration so that the assembler is not required.
- Fixed a bug in the C++ test that caused it to fail in 64-bit environments.

Since 4.11:
- Fixed ElfW definition in dyn_load.c. (Thanks to Fergus Henderson.)
  This prevented the dynamic library support from compiling on some older ELF Linux systems.
- Fixed UTS4 port (which I apparently mangled during the integration)  
  (Thanks to again to Alistair Crooks.)
- "Make C++" failed on Suns with SC4.0, due to a problem with "bool".  
  Fixed in ge_priv.h.
- Added more pieces for GNU win32.  (Thanks to Timothy N. Newsham.)
  The current state of things should suffice for at least some 
  applications.
- Changed the out of memory retry count handling as suggested by 
  Kenjiro Taura.  (This matters only if GC_max_retries > 0, which
  is no longer the default.)
- If a /proc read failed repeatedly, GC_written_pages was not updated 
  correctly.  (Thanks to Peter Chubb for diagnosing this.)
- Under unlikely circumstances, the allocator could infinite loop in 
  an out of memory situation.  (Thanks again to Kenjiro Taura for 
  identifying the problem and supplying a fix.)
- Fixed a syntactic error in the DJGPP code.  (Thanks to Fergus 
  Henderson for finding this by inspection.)  Also fixed a test program 
  problem with DJGPP (Thanks to Peter Monks.)
- Atomic uncollectable objects were not treated correctly by the 
  incremental collector.  This resulted in weird log statistics and 
  occasional performance problems.  (Thanks to Peter Chubb for pointing 
  this out.)
- Fixed some problems resulting from compilers that dont define 
  __STDC__.  In this case void * and char * were used inconsistently 
  in some cases.  (Void * should not have been used at all.  If 
  you have an ANSI superset compiler that does not define __STDC__,
  please compile with -D__STDC__=0. Thanks to Manuel Serrano and others 
  for pointing out the problem.)
- Fixed a compilation problem on Irix with -n32 and -DIRIX_THREADS. 
  Also fixed some other IRIX_THREADS problems which may or may not have 
  had observable symptoms.
- Fixed an HP PA compilation problem in dyn_load.c.  (Thanks to 
  Philippe Queinnec.)
- SEGV fault handlers sometimes did not get reset correctly.  (Thanks 
  to David Pickens.)
- Added a fix for SOLARIS_THREADS on Intel.  (Thanks again to David 
  Pickens.)  This probably needs more work to become functional.
- Fixed struct sigcontext_struct in os_dep.c for compilation under 
  Linux 2.1.X.(Thanks to Fergus Henderson.)
- Changed the DJGPP STACKBOTTOM and DATASTART values to those suggested 
  by Kristian Kristensen.  These may still not be right, but it is 
  it is likely to work more often than what was there before.  They may 
  even be exactly right.
- Added a #include <string.h> to test_cpp.cc.  This appears to help 
  with HP/UX and gcc.  (Thanks to assar@sics.se.)
- Version 4.11 failed to run in incremental mode on recent 64-bit Irix 
  kernels.  This was a problem related to page unaligned heap segments. 
  Changed the code to page align heap sections on all platforms.
(I had mistakenly identified this as a kernel problem earlier. It was not.)
- Version 4.11 did not make allocated storage executable, except on one or two platforms, due to a bug in a #if test. (Thanks to Dave Grove for pointing this out.)
- Added sparc_sunos4_mach_dep.s to support Sun's compilers under SunOS4.
- Added GC_exclude_static_roots.
- Fixed the object size mapping algorithm. This shouldn't matter, but the old code was ugly.
- Heap checking code could die if one of the allocated objects was larger than its base address. (Unsigned underflow problem. Thanks to Clay Spence for isolating the problem.)
- Added RS6000 (AIX) dynamic library support and fixed STACK_BOTTOM. (Thanks to Fred Stearns.)
- Added Fergus Henderson's patches for improved robustness with large heaps and lots of blacklisting.
- Added Peter Chubb's changes to support Solaris Pthreads, to support MMAP allocation in Solaris, to allow Solaris to find dynamic libraries through /proc, to add malloc_typed_ignore_off_page, and a few other minor features and bug fixes.
- The Solaris 2 port should not use sbrk. I received confirmation from Sun that the use of sbrk and malloc in the same program is not supported. The collector now defines USE_MMAP by default on Solaris.
- Replaced the djgpp makefile with Gary Leavens' version.
- Fixed MSWIN32 detection test.
- Added Fergus Henderson's patches to allow putting the collector into a DLL under GNU win32.
- Added Ivan V. Demakov's port to Watcom C on X86.
- Added Ian Piumarta's Linux/PowerPC port.
- On Brian Burton's suggestion added PointerFreeGC to the placement options in gc_cpp.h. This is of course unsafe, and may be controversial. On the other hand, it seems to be needed often enough that it's worth adding as a standard facility.

Since 4.12:
- Fixed a crucial bug in the Watcom port. There was a redundant decl of GC_push_one in ge_priv.h.
- Added FINALIZE_ON_DEMAND.
- Fixed some pre-ANSI cc problems in test.c.
- Removed getpagesize() use for Solaris. It seems to be missing in one or two versions.
- Fixed bool handling for SPARCCompiler version 4.2.
- Fixed some files in include that had gotten unlinked from the main copy.
- Some RS/6000 fixes (missing casts). Thanks to Toralf Foerster.
- Fixed several problems in GC_debug_realloc, affecting mostly the FIND_LEAK case.
- GC_exclude_static_roots contained a buggy unsigned comparison to
terminate a loop. (Thanks to Wilson Ho.)
- CORD_str failed if the substring occurred at the last possible position.
  (Only affects cord users.)
- Fixed Linux code to deal with RedHat 5.0 and integrated Peter Bigot's
  os_dep.c code for dealing with various Linux versions.
- Added workaround for Irix pthreads sigaction bug and possible signal
  misdirection problems.
Since alpha1:
- Changed RS6000 STACKBOTTOM.
- Integrated Patrick Beard's Mac changes.
- Alpha1 didn't compile on Irix m.n, m < 6.
- Replaced Makefile.dj with a new one from Gary Leavens.
- Added Andrew Stitcher's changes to support SCO OpenServer.
- Added PRINT_BLACK_LIST, to allow debugging of high densities of false
  pointers.
- Added code to debug allocator to keep track of return address
  in GC_malloc caller, thus giving a bit more context.
- Changed default behavior of large block allocator to more
  aggressively avoid fragmentation. This is likely to slow down the
  collector when it succeeds at reducing space cost.
- Integrated Fergus Henderson's CYGWIN32 changes. They are untested,
  but needed for newer versions.
- USE_MMAP had some serious bugs. This caused the collector to fail
  consistently on Solaris with -DSMALL_CONFIG.
- Added Linux threads support, thanks largely to Fergus Henderson.
Since alpha2:
- Fixed more Linux threads problems.
- Changed default GC_free_space_divisor to 3 with new large block allocation.
  (Thanks to Matthew Flatt for some measurements that suggest the old
  value sometimes favors space too much over time.)
- More CYGWIN32 fixes.
- Integrated Tyson-Dowd's Linux-M68K port.
- Minor HP PA and DEC UNIX fixes from Fergus Henderson.
- Integrated Christoffe Raffali's Linux-SPARC changes.
- Allowed for one more GC fixup iteration after a full GC in incremental
  mode. Some quick measurements suggested that this significantly
  reduces pause times even with smaller GC_RATE values.
- Moved some more GC data structures into GC_arrays. This decreases
  pause times and GC overhead, but makes debugging slightly less convenient.
- Fixed namespace pollution problem ("excl_table").
- Made GC_incremental a constant for -DSMALL_CONFIG, hopefully shrinking
  that slightly.
- Added some win32 threads fixes.
- Integrated Ivan Demakov and David Stes' Watcom fixes.
- Various other minor fixes contributed by many people.
- Renamed config.h to gcconfig.h, since config.h tends to be used for
  many other things.
- Integrated Matthew Flatt's support for 68K MacOS "far globals".
- Fixed up some of the dynamic library Makefile targets for consistency across platforms.
- Fixed a USE_MMAP typo that caused out-of-memory handling to fail on Solaris.
- Added code to test.c to test thread creation a bit more.
- Integrated GC_win32_free_heap, as suggested by Ivan Demakov.
- Fixed Solaris 2.7 stack base finding problem. (This may actually have been done in an earlier alpha release.)

Since alpha3:
- Fixed MSWIN32 recognition test, which interfered with cygwin.
- Removed unnecessary gc_watcom.asm from distribution. Removed some obsolete README.win32 text.
- Added Alpha Linux incremental GC support. (Thanks to Philipp Tomships for code for retrieving the fault address in a signal handler.)
- Changed Linux signal handler context argument to be a pointer.
- Took care of some new warnings generated by the 7.3 SGI compiler.
- Integrated Phillip Musumeci’s FreeBSD/ELF fixes.
- -DIRIX_THREADS was broken with the -o32 ABI (typo in gc_priv.h).

Since 4.13:
- Fixed GC_print_source_ptr to not use a prototype.
- generalized CYGWIN test.
- gc::new did the wrong thing with PointerFreeGC placement. (Thanks to Rauli Ruohon.)
- In the ALL_INTERIOR_POINTERS (default) case, some callee-save register values could fail to be scanned if the register was saved and reused in a GC frame. This showed up in verbose mode with gcctest compiled with an unreleased SGI compiler. I vaguely recall an old bug report that may have been related. The bug was probably quite old. (The problem was that the stack scanning could be deferred until after the relevant frame was overwritten, and the new save location might be outside the scanned area. Fixed by more eager stack scanning.)
- PRINT_BLACK_LIST had some problems. A few source addresses were garbage.
- Replaced Makefile.dj and added -I flags to cord make targets. (Thanks to Gary Leavens.)
- GC_try_to_collect was broken with the nonincremental collector.
- gc_cleanup destructors could pass the wrong address to GC_register_finalizer_ignore_self in the presence of multiple inheritance. (Thanks to Darrell Schiebel.)
- Changed PowerPC Linux stack finding code.

Since 4.14alpha1
- -DSMALL_CONFIG did not work reliably with large (> 4K) pages.
  Recycling the mark stack during expansion could result in a size zero heap segment, which confused things. (This was probably also an issue with the normal config and huge pages.)
- Did more work to make sure that callee-save registers were scanned completely, even with the setjmp-based code. Added USE_GENERIC_PUSH_REGS
macro to facilitate testing on machines I have access to.
- Added code to explicitly push register contents for win32 threads.
  This seems to be necessary. (Thanks to Pierre de Rop.)

Since 4.14alpha2
- changed STACKBOTTOM for DJGPP (Thanks to Salvador Eduardo Tropea).

Since 4.14
- Reworked large block allocator. Now uses multiple doubly linked free
  lists to approximate best fit.
- Changed heap expansion heuristic. Entirely free blocks are no longer
counted towards the heap size. This seems to have a major impact on
heap size stability; the old version could expand the heap way too
much in the presence of large block fragmentation.
- added -DGC_ASSERTIONS and some simple assertions inside the collector.
  This is mainly for collector debugging.
- added -DUSE_MUNMAP to allow the heap to shrink. Supported on only
  a few UNIX-like platforms for now.
- added GC_dump_regions() for debugging of fragmentation issues.
- Changed PowerPC pointer alignment under Linux to 4. (This needs
  checking by someone who has one. The suggestions came to me via a
  rather circuitous path.)
- Changed the Linux/Alpha port to walk the data segment backwards until
  it encounters a SIGSEGV. The old way to find the start of the data
  segment broke with a recent release.
- cordxtra.c needed to call GC_REGISTER_FINALIZER instead of
  GC_register_finalizer, so that it would continue to work with GC_DEBUG.
- allochblk sometimes cleared the wrong block for debugging purposes
  when it dropped blacklisted blocks. This could result in spurious
  error reports with GC_DEBUG.
- added MACOS X Server support. (Thanks to Andrew Stone.)
- Changed the Solaris threads code to ignore stack limits > 8 MB with
  a warning. Empirically, it is not safe to access arbitrary pages
  in such large stacks. And the dirty bit implementation does not
  guarantee that none of them will be accessed.
- Integrated Martin Tauchmann's Amiga changes.
- Integrated James Dominy's OpenBSD/SPARC port.

Since 5.0alpha1
- Fixed bugs introduced in alpha1 (OpenBSD & large block initialization).
- Added -DKEEP_BACK_PTRS and backptr.h interface. (The implementation
  idea came from Al Demers.)

Since 5.0alpha2
- Added some highly incomplete code to support a copied young generation.
  Comments on nursery.h are appreciated.
- Changed -DFIND_LEAK, -DJAVA_FINALIZATION, and -DFINALIZE_ON_DEMAND,
  so the same effect could be obtained with a runtime switch. This is
a step towards standardizing on a single dynamic GC library.
- Significantly changed the way leak detection is handled, as a consequence of the above.

Since 5.0 alpha3
- Added protection fault handling patch for Linux/M68K from Fergus Henderson and Roman Hodek.
- Removed the tests for SGI_SOURCE in new_gc_alloc.h. This was causing that interface to fail on nonSGI platforms.
- Changed the Linux stack finding code to use /proc, after changing it to use HEURISTIC1. (Thanks to David Mossberger for pointing out the /proc hook.)
- Added HP/UX incremental GC support and HP/UX 11 thread support.
  Thread support is currently still flakey.
- Added basic Linux/IA64 support.
- Integrated Anthony Green's PicoJava support.
- Integrated Scott Ananian's StrongARM/NetBSD support.
- Fixed some fairly serious performance bugs in the incremental collector. These have probably been there essentially forever.
  (Mark bits were sometimes set before scanning dirty pages.
  The reclaim phase unnecessarily dirtied full small object pages.)
- Changed the reclaim phase to ignore nearly full pages to avoid touching them.
- Limited GC_black_list_spacing to roughly the heap growth increment.
- Changed full collection triggering heuristic to decrease full GC frequency by default, but to explicitly trigger full GCs during heap growth. This doesn't always improve things, but on average it's probably a win.
- GC_debug_free(0, ...) failed. Thanks to Fergus Henderson for the bug report and fix.

Since 5.0 alpha4
- GC_malloc_explicitly.Typed and friends sometimes failed to initialize first word.
- Added allocation routines and support in the marker for mark descriptors in a type structure referenced by the first word of an object. This was introduced to support gcj, but hopefully in a way that makes it generically useful.
- Added GC_requested_heapsize, and inhibited collections in nonincremental mode if the actual used heap size is less than what was explicitly requested.
- The Solaris pthreads version of GC_pthread_create didn't handle a NULL attribute pointer. Solaris thread support used the wrong default thread stack size. (Thanks to Melissa O'Neill for the patch.)
- Changed PUSH_CONTENTS macro to no longer modify first parameter. This usually doesn't matter, but it was certainly an accident waiting to happen ...
- Added GC_register_finalizer_no_order and friends to gc.h. They're
needed by Java implementations.
- Integrated a fix for a win32 deadlock resulting from clock() calling malloc.  (Thanks to Chris Dodd.)
- Integrated Hiroshi Kawashima's port to Linux/MIPS.  This was designed for a handheld platform, and may or may not be sufficient for other machines.
- Fixed a va_arg problem with the %c specifier in cordprnt.c.  It appears that this was always broken, but recent versions of gcc are the first to report the (statistically detectable) bug.
- Added an attempt at a more general solution to dlopen races/deadlocks. GC_dlopen now temporarily disables collection.  Still not ideal, but ...
- Added -DUSE_I686_PREFETCH, -DUSE_3DNOW_PREFETCH, and support for IA64 prefetch instructions. May improve performance measurably, but I'm not sure the code will run correctly on processors that don't support the instruction. Won't build except with very recent gcc.
- Added caching for header lookups in the marker.  This seems to result in a barely measurable performance gain.  Added support for interleaved lookups of two pointers, but unconfigured that since the performance gain is currently near zero, and it adds to code size.
- Changed Linux DATA_START definition to check both data_start and __data_start, since nothing else seems to be portable.
- Added -DUSE_LD_WRAP to optionally take advantage of the GNU ld function wrapping mechanism.  Probably currently useful only on Linux.
- Moved some variables for the scratch allocator into GC_arrays, on Martin Hirzel's suggestion.
- Fixed a win32 threads bug that caused the collector to not look for interior pointers from one of the thread stacks without ALL_INTERIOR_POINTERS.  (Thanks to Jeff Sturm.)
- Added Mingw32 support.  (Thanks again to Jeff Sturm for the patch.)
- Changed the alpha port to use the generic register scanning code instead of alpha_mach_dep.s.  Alpha_mach_dep.s doesn't look for pointers in fp registers, but gcc sometimes spills pointers there.  (Thanks to Manuel Serrano for helping me debug this by email.) Changed the IA64 code to do something similar for similar reasons.

[5.0alpha5 doesn't really exist, but it may have escaped.]

Since 5.0alpha6:
- -DREDIRECT_MALLOC was broken in alpha6. Fixed.
- Cleaned up gc_ccp.h slightly, thus also causing the HP C++ compiler to accept it.
- Removed accidental reference to dbg_mlc.c, which caused dbg_mlc.o to be linked into every executable.
- Added PREFETCH to bitmap marker.  Changed it to use the header cache.
- GC_push_marked sometimes pushed one object too many, resulting in a segmentation fault in GC_mark_from_mark_stack.  This was probably an old bug.  It finally showed up in getest on win32.
- Gc_priv.h erroneously #defined GC_incremental to be TRUE instead of FALSE
when SMALL_CONFIG was defined. This was no doubt a major performance bug for the default win32 configuration.

- Removed -DSMALL_CONFIG from NT_MAKEFILE. It seemed like an anchronism now that the average PC has 64MB or so.

- Integrated Bryce McKinley's patches for linux threads and dynamic loading from the libgcj tree. Turned on dynamic loading support for Linux/PPC.

- Changed the stack finding code to use environ on HP/UX. (Thanks to Gustavo Rodriguez-Rivera for the suggestion.) This should probably be done on other platforms, too. Since I can't test those, that'll wait until after 5.0.

Since 5.0alpha7:
- Fixed threadlibs.c for linux threads. -DUSE_LD_WRAP was broken and -ldl was omitted. Fixed Linux stack finding code to handle -DUSE_LD_WRAP correctly.
- Added MSWIN32 exception handler around marker, so that the collector can recover from root segments that are unmapped during the collection.
  This caused occasional failures under Windows 98, and may also be an issue under Windows NT/2000.

Since 5.0
- Fixed a gc.h header bug which showed up under Irix. (Thanks to Dan Sullivan.)
- Fixed a typo in GC_double_descr in typd_mlc.c.
  This probably could result in objects described by array descriptors not getting traced correctly. (Thanks to Ben Hutchings for pointing this out.)
- The block nearly full tests in reclaim.c were not correct for 64 bit environments. This could result in unnecessary heap growth under unlikely conditions.

Since 5.1
- dyn_load.c declared GC_scratch_last_end_ptr as an extern even if it was defined as a macro. This prevented the collector from building on Irix.
- We quietly assumed that indirect mark descriptors were never 0.
  Our own typed allocation interface violated that. This could result in segmentation faults in the marker with typed allocation.
- Fixed a _DUSE_MUNMAP bug in the heap block allocation code.
  (Thanks to Ben Hutchings for the patch.)
- Taught the collector about VC++ handling array operator new.
  (Thanks again to Ben Hutchings for the patch.)
- The two copies of gc_hdrs.h had diverged. Made one a link to the other again.

Since 5.2 (A few 5.2 patches are not in 6.0alpha1)
- Fixed _end declaration for OSF1.
- There were lots of spurious leak reports in leak detection mode, caused by the fact that some pages were not being swept, and hence unmarked
objects weren't making it onto free lists. (This bug dated back to 5.0.)
- Fixed a typo in the liblinuxgc.so Makefile rule.
- Added the GetExitCodeThread to Win32 GC_stop_world to (mostly) work
  around a Windows 95 GetOpenFileName problem. (Thanks to Jacob Navia.)

Since 5.3
- Fixed a typo that prevented compilation with -DUSE_3DNOW_PREFETCH.
  (Thanks to Shawn Wagner for actually testing this.)
- Fixed GC_is_thread_stack in solaris_threads.c. It forgot to return a value
  in the common case. I wonder why nobody noticed?
- Fixed another silly syntax problem in GC_double_descr. (Thanks to
  Fergus Henderson for finding it.)
- Fixed a GC_gcj_malloc bug: It tended to release the allocator lock twice.

Since 5.4 (A few 5.3 patches are not in 6.0alpha2)
- Added HP/PA prefetch support.
- Added -DDBG_HDRS_ALL and -DSHORT_DBG_HDRS to reduce the cost and improve
  the reliability of generating pointer backtrace information, e.g. in
  the Bigloo environment.
- Added parallel marking support (-DPARALLEL_MARK). This currently
  works only under IA32 and IA64 Linux, but it shouldn't be hard to adapt
  to other platforms. This is intended to be a lighter-weight (less
  new code, probably not as scalable) solution than the work by Toshio Endo
  et al, at the University of Tokyo. A number of their ideas were
  reused, though the code wasn't, and the underlying data structure
  is significantly different. In particular, we keep the global mark
  stack as a single shared data structure, but most of the work is done
  on smaller thread-local mark stacks.
- Changed GC_mallocre many to be cheaper, and to require less mutual exclusion
  with -DPARALLEL_MARK.
- Added full support for thread local allocation under Linux
  (-DTHREAD_LOCAL_ALLOC). This is a thin veneer on GC_mallocre many, and
  should be easily portable to other platforms, especially those that
  support pthreads.
- CLEAR_DOUBLE was not always getting invoked when it should have been.
- GC_gcj_malloc and friends used different out of memory handling than
  everything else, probably because I forgot about one when I implemented
  the other. They now both call GC_oom_fn(), not GC_oom_action().
- Integrated Jakub Jelinek's fixes for Linux/SPARC.
- Moved GC_objfreelist, GC_aobjfreelist, and GC_words_allocd out of
  GC_arrays, and separately registered the first two as excluded roots.
  This makes code compiled with gc_inl.h less dependent on the
  collector version. (It would be nice to remove the inclusion of
  gc_priv.h by gc_inl.h completely, but we're not there yet. The
  locking definitions in gc_priv.h are still referenced.)
  This change was later coniditoned on SEPARATE_GLOBALS, which
  is not defined by default, since it involves a performance hit.
- Register GC_obj_kinds separately as an excluded root region. The
attempt to register it with GC_arrays was usually failing. (This wasn't serious, but seemed to generate some confusion.)
- Moved backptr.h to gc_backptr.h.

Since 6.0alpha1
- Added USE_MARK_BYTES to reduce the need for compare-and-swap on platforms for which that's expensive.
- Fixed a locking bug in GC_gcj_malloc and some locking assertion problems.
- Added a missing volatile to OR_WORD and renamed the parameter to GC_compare_and_swap so it's not a C++ reserved word. (Thanks to Toshio Endo for pointing out both of those.)
- Changed Linux dynamic library registration code to look at /proc/self/maps instead of the rld data structures when REDIRECT_MALLOC is defined. Otherwise some of the rld data structures may be prematurely garbage collected. (Thanks to Eric Benson for helping to track this down.)
- Fixed USE_LD_WRAP a bit more, so it should now work without threads.
- Renamed XXX_THREADS macros to GC_XXX_THREADS for namespace correctness. Temporarily added some backward compatibility definitions. Renamed USE_LD_WRAP to GC_USE_LD_WRAP.
- Many MACOSX POWERPC changes, some additions to the gc test output, and a few minor generic bug fixes. (Thanks to Dietmar Planitzer.)

Since 6.0 alpha2
- Fixed the /proc/self/maps code to not seek, since that apparently is not reliable across all interesting kernels.
- Fixed some compilation problems in the absence of PARALLEL_MARK (introduced in alpha2).
- Fixed an algorithmic problem with PARALLEL_MARK. If work needs to be given back to the main mark "stack", the BOTTOM entries of the local stack should be given away, not the top ones. This has substantial performance impact, especially for > 2 processors, from what I can tell.
- Extracted gc_lock.h from ge_priv.h. This should eventually make it a bit easier to avoid including gc_priv.h in clients.
- Moved all include files to include/ and removed duplicate links to the same file. The old scheme was a bad idea because it was too easy to get the copies out of sync, and many systems don't support hard links. Unfortunately, it's likely that I broke some of the non-Unix Makefiles in the process, although I tried to update them appropriately.
- Removed the partial support for a copied nursery. It's not clear that this would be a tremendous win, since we don't consistently lose to generational copying collectors. And it would significantly complicate many things. May be reintroduced if/when it really turns out to win.
- Removed references to IRIX_JDK_THREADS, since I believe there were never and never will be any clients.
- Added some code to linux_threads.c to possibly support HPUX threads using the Linux code. Unfortunately, it doesn't work yet, and is currently disabled.
- Added support under Linux/X86 for saving the call chain, both in (debug)
objects for client debugging, and in GC_arrays._last_stack for GC debugging. This was previously supported only under Solaris. It is not enabled by default under X86, since it requires that code be compiled to explicitly save frame pointers on the call stack. (With gcc this currently happens by default, but is often turned off explicitly.) To turn it on, define SAVE_CALL_CHAIN.

Since 6.0 alpha3
- Moved up the detection of mostly full blocks to the initiation of the sweep phase. This eliminates some lock contention in the PARALLEL_MARK case, as multiple threads try to look at mostly full blocks concurrently.
- Restored the code in GC_malloc_many that grabs a prefix of the global free list. This avoids the case in which every GC_malloc_many call tries and fails to allocate a new heap block, and the returns a single object from the global free list.
- Some minor fixes in new_hblk.c. (Attempted to build free lists in order of increasing addresses instead of decreasing addresses for cache performance reasons. But this seems to be only a very minor gain with -DEAGER_SWEEP, and a loss in other cases. So the change was backed out.)
- Fixed some of the documentation. (Thanks in large part to Fergus Henderson.)
- Fixed the Linux USE_PROC_FOR_LIBRARIES code to deal with apps that perform large numbers of mmaps. (Thanks to Eric Benson.) Also fixed that code to deal with short reads.
- Added GC_get_total_bytes().
- Fixed leak detection mode to avoid spurious messages under linuxthreads. (This should also now be easy for the other supported threads packages. But the code is tricky enough that I'm hesitant to do it without being able to test. Everything allocated in the GC thread support itself should be explicitly deallocated.)
- Made it possible (with luck) to redirect malloc to GC_local_malloc.

Since 6.0 alpha4
- Changed the definition of GC_pause in linux_threads.c to use a volatile asm. Some versions of gcc apparently optimize away writes to local volatile variables. This caused poor locking behaviour starting at about 4 processors.
- Added GC_start_blocking(), GC_end_blocking() calls and wrapper for sleep to linux_threads.c. The first two calls could be used to generally avoid sending GC signals to blocked threads, avoiding both premature wakeups and unnecessary overhead.
- Fixed a serious bug in thread-local allocation. At thread termination, GC_free could get called on small integers. Changed the code for thread termination to more efficiently return left-over free-lists.
- Integrated Kjetil Matheussen's BeOS support.
- Rearranged the directory structure to create the doc and tests subdirectories.
- Sort of integrated Eric Benson's patch for OSF1. This provided basic
OSF1 thread support by suitably extending hpux_irix_threads.c. Based on earlier email conversations with David Butenhof, I suspect that it will be more reliable in the long run to base this on linux_threads.c instead. Thus I attempted to patch up linux_threads.c based on Eric’s code. The result is almost certainly broken, but hopefully close enough that someone with access to a machine can pick it up.

- Integrated lots of minor changes from the NetBSD distribution. (These were supplied by David Brownlee. I'm not sure about the original authors.)

- Hacked a bit more on the HP/UX thread-support in linux_threads.c. It now appears to work in the absence of incremental collection. Renamed hpux_irix_threads.c back to irix_threads.c, and removed the attempt to support HP/UX there.

- Changed gc.h to define _REENTRANT in cases in which it should already have been defined. It is still safer to also define it on the command line.

Since 6.0alpha5:

- Changed the definition of DATASTART on ALPHA and IA64, where data_start and __data_start are not defined by earlier versions of glibc. This might need to be fixed on other platforms as well.

- Changed the way the stack base and backing store base are found on IA64. This should now remain reliable on future kernels. But since it relies on /proc, it will no longer work in the simulated NUE environment.

- Made the call to random() in dbg_mlc.c with -DKEEP_BACK_PTRS dependent on the OS. On non-Unix systems, rand() should be used instead. Handled small RAND_MAX. (Thanks to Peter Ross for pointing this out.)

- Fixed the cord make rules to create the cord subdirectory, if necessary. (Thanks to Doug Moen.)

- Changed fo_object_size calculation in finalize.c. Turned finalization of nonheap object into a no-op. Removed anachronism from GC_size() implementation.

- Changed GC_push_dirty call in solaris_threads.c to GC_push_selected. It was missed in a previous renaming. (Thanks to Vladimir Tsichevski for pointing this out.)

- Arranged to not not mask SIGABRT in linux_threads.c. (Thanks to Bryce McKinlay.)

- Added GC_no_dls hook for applications that want to register their own roots.

- Integrated Kjetil Matheussen's Amiga changes.

- Added FREEBSD_STACKBOTTOM. Changed the X86/FreeBSD port to use it. (Thanks to Matthew Flatt.)

- Added pthread_detach interception for platforms supported by linux_threads.c and irix_threads.c. Should also be added for Solaris?

- Changed the USE_MMAP code to check for the case in which we got the high end of the address space, i.e. mem_ptr + mem_sz == 0. It appears that this can happen under Solaris 7. It seems to be allowed by what I would claim is an oversight in the mmap specification. (Thanks to Toshio
Endo for pointing out the problem.)
- Cleanup of linux_threads.c. Some code was originally cloned from irix_threads.c and now unnecessary. Some comments were obviously wrong.
- (Mostly) fixed a longstanding problem with setting of dirty bits from a signal handler. In the presence of threads, dirty bits could get lost, since the setting of a bit in the bit vector was not atomic with respect to other updates. The fix is 100% correct only for platforms for which GC_test_and_set is defined. The goal is to make that all platforms with thread support. Matters only if incremental GC and threads are both enabled.
- made GC_all_interior_pointers (a.k.a. ALL_INTERIOR_POINTERS) an initialization time, instead of build-time option. This is a nontrivial, high risk change. It should slow down the code measurably only if MERGE_SIZES is not defined, which is a very nonstandard configuration.
- Added doc/README.environment, and implemented what it describes. This allows a number of additional configuration options to be set through the environment. It documents a few previously undocumented options.
- Integrated Eric Benson's leak testing improvements.
- Removed the option to throw away the beginning of each page (DISCARD_WORDS). This became less and less useful as processors enforce stricter alignment. And it hadn't been tested in ages, and was thus probably broken anyway.

Since 6.0alpha6:
- Added GC_finalizer_notifier. Fixed GC_finalize_on_demand. (The variable actually wasn't being tested at the right points. The build-time flag was.)
- Added Tom Tromey's S390 Linux patch.
- Added code to push GC_finalize_now in GC_push_finalizer_structures. (Thanks to Matthew Flatt.)
- Added GC_push_gc_structures() to push all GC internal roots.
- Integrated some FreeBSD changes from Matthew Flatt.
- It looks like USRSTACK is not always correctly defined under Solaris. Hacked gcconfig.h to attempt to work around the problem. The result is not well tested. (Thanks again to Matthew Flatt for pointing this out. The gross hack is mine. - HB)
- Added Ji-Yong Chung's win32 threads and C++ fixes.
- Arranged for hpux_test_and_clear.s to no longer be needed or built. It was causing build problems with gas, and it's not clear this is better than the pthreads alternative on this platform.
- Some MINGW32 fixes from Hubert Garavel.
- Added Initial Hitachi SH4 port from Kaz Kojima.
- Ported thread-local allocation and parallel mark code to HP/UX on PA_RISC.
- Made include/gc_mark.h more public and separated out the really private pieces. This is probably still not quite sufficient for clients that want to supply their own kind of type information. But it's a start.
  This involved lots of identifier renaming to make it namespace clean.
- Added GC_dont_precollect for clients that need complete control over
the root set.
- GC_is_visible didn't do the right thing with gcj objects. (Not that 
  many people are likely to care, but ...)
- Don't redefine read with GC_USE_LD_WRAP.
- Initial port to LINUX/HP_PA. Incremental collection and threads are not 
  yet supported. (Incremental collection should work if you have the 
  right kernel. Threads may work with a sufficiently patched pthread 
  library.)
- Changed gcconfig.h to recognize __i386__ as an alternative to i386 in 
  many places. (Thanks to Benjamin Lerman.)
- Made win32_threads.c more tolerant of detaching a thread that it didn't 
  know about. (Thanks to Paul Nash.)
- Added Makefile.am and configure.in from gcc to the distribution, with 
  minimal changes. For the moment, those are just placeholders. In the 
  future, we're planning to switch to a GNU-style build environment for 
  Un*x-like systems, though the old Makefile will remain as a backup.
- Turned off STUBBORN_ALLOC by default, and added it back as a Makefile 
  option.
- Redistributed some functions between malloc.c and mallocx.c, so that 
  simple statically linked apps no longer pull in mallocx.o.
- Changed large object allocation to clear the first and last few words 
  of each block before releasing the lock. Otherwise the marker could see 
  objects with nonsensical type descriptors.
- Fixed a couple of subtle problems that could result in not recognizing 
  interior pointers from the stack. (I believe these were introduced 
  in 6.0alpha6.)
- GC_debug_free_inner called GC_free, which tried to reacquire the 
  allocator lock, and hence deadlocked. (DBG_HDRS_ALL probably never worked 
  with threads?)
- Fixed several problems with back traces. Accidental references to a free 
  list could cause the free list pointer to be overwritten by a back pointer. 
  There seemed to be some problems with the encoding of root and finalizer 
  references.

Since 6.0alpha7:
- Changed GC_debug_malloc_replacement and GC_debug_realloc_replacement 
  so that they compile under Irix. (Thanks to Dave Love.)
- Updated powerpc_macosx_mach_dep.s so that it works if the collector 
  is in a dynamic library. (Thanks to Andrew Begel.)
- Transformed README.debugging into debugging.html, updating and 
  expanding it in the process. Added gcdescr.html and tree.html 
  from the web site to the GC distribution.
- Fixed several problems related to PRINT_BLACK_LIST. This involved 
  restructuring some of the marker macros.
- Fixed some problems with the sizing of objects with debug information. 
  Finalization was broken KEEP_BACK_PTRS or PRINT_BLACK_LIST. Reduced the 
  object size with SHORT_DEBUG_HDRS by another word.
- The "Needed to allocate blacklisted ..." warning had inadvertently
been turned off by default, due to a buggy test in alchblk.c. Turned it back on.
- Removed the marker macros to deal with 2 pointers in interleaved fashion. They were messy and the performance improvement seemed minimal. We'll leave such scheduling issues to the compiler.
- Changed Linux/PowerPC test to also check for __powerpc__ in response to a discussion on the gcc mailing list.
- On Matthew Flatt's suggestion removed the "static" from the jmp_buf declaration in GC_generic_push_regs. This was causing problems in systems that register all of their own roots. It looks far more correct to me without the "static" anyway.
- Fixed several problems with thread local allocation of pointerfree or typed objects. The collector was reclaiming thread-local free lists, since it wasn't following the link fields.
- There was apparently a long-standing race condition related to multithreaded incremental collection. A collection could be started and a thread stopped between the memory unprotect system call and the setting of the corresponding dirt bit. I believe this did not affect Solaris or PCR, which use a different dirty-bit implementation. Fixed this by installing signal handlers with sigaction instead of signal, and disabling the thread suspend signal while in the write-protect handler. (It is unclear whether this scenario ever actually occurred. I found it while tracking down the following:)
- Incremental collection did not cooperate correctly with the PARALLEL_MARK implementation of GC_malloc_many or the local_malloc primitives. It still doesn't work well, but it shouldn't lose memory anymore.
- Integrated some changes from the gcc source tree that I had previously missed. (Thanks to Bryce McKinley for the reminder/diff.)
- Added Makefile.direct as a copy of the default Makefile, which would normally be overwritten if configure is run.
- Changed the gc.tar target in Makefile.direct to embed the version number in the gc directory name. This will affect future tar file distributions.
- Changed the Irix dynamic library finding code to no longer try to eliminate writable text segments under Irix6.x, since that is probably no longer necessary, and can apparently be unsafe on occasion. (Thanks to Shiro Kawai for pointing this out.)
- GC_cleanup with GC_DEBUG enabled passed a real object base address to GC_debug_register_finalizer_ignore_self, which expected a pointer past the debug header. Call GC_register_finalizer_ignore_self instead, even with debugging enabled. (Thanks to Jean-Daniel Fekete for catching this.)
- The collector didn't build with call chain saving enabled but NARGS=0. (Thanks to Maarten Thibaut.)
- Fixed up the GNU-style build files enough so that they work in some obvious cases.
- Added initial port to Digital Mars compiler for win32. (Thanks to Walter Bright.)

Since 6.0alpha8:
- added README.macros.
- Made gc.mak a symbolic link to work around winzip's tendency to ignore hard links.
- Simplified the setting of NEED_FIND_LIMIT in os_dep.c, possibly breaking it on untested platforms.
- Integrated initial GNU HURD port. (Thanks to Chris Lingard and Igor Khavkine.)
- A few more fixes for Digital Mars compiler (Walter Bright).
- Fixed gcc version recognition. Renamed OPERATOR_NEW_ARRAY to GC_OPERATOR_NEW_ARRAY. Changed GC_OPERATOR_NEW_ARRAY to be the default. It can be overridden with -DGC_NO_OPERATOR_NEW_ARRAY. (Thanks to Cesar Eduardo Barros.)
- Changed the byte size to free-list mapping in thread local allocation so that size 0 allocations are handled correctly.
- Fixed Linux/MIPS stackbottom for new toolchain. (Thanks to Ryan Murray.)
- Changed finalization registration to invoke GC_oom_fn when it runs out of memory.
- Removed lvalue cast in finalize.c. This caused some debug configurations not to build with some non-gcc compilers.

Since 6.0alpha9:
- Two more bug fixes for KEEP_BACK_PTRS and DBG_HDRS_ALL.
- Fixed a stack clearing problem that resulted in SIGILL with a misaligned stack pointer for multithreaded SPARC builds.
- Integrated another HURD patch (thanks to Igor Khavkine).

Since 6.0:
- Non-debug, atomic allocations could result in bogus smashed object reports with debugging on. (Thanks to Patrick Doyle for the small test case.)
- Fixed GC_get_register_stack_base (Itanium only) to work around a glibc 2.2.4 bug.
- Initial port to HP/UX on Itanium. Thread support and both 32 and 64 bit ABIs appear to work. Parallel mark support doesn't yet, due to some inline assembly code issues. Thread local allocation does appear to work.
- ifdef'ed out glibc2.1/Itanium workaround. I suspect nobody is using that combination anymore.
- Added a patch to make new_gc_alloc.h usable with gcc3.0. (Thanks to Dimitris Vyzovitis for the patch.)
- Debugged 64-bit support on HP/UX PA-RISC.
- Turned on dynamic loading support for FreeBSD/ELF. (Thanks to Peter Housel.)
- Unregistering of finalizers with debugging allocation was broken. (Thanks to Jani Kajala for the test case.)
- Old finalizers were not returned correctly from GC_debug_register_finalizer.
- Disabled MPROTECT_VDB for Linux/M68K based on a report that it doesn't work.
- Cleaned up some statistics gathering code in reclaim.c (Thanks to Walter...
Bright.
- Added some support for OpenBSD/ELF/Linux. (Thanks to Suzuki Toshiya.)
- Added Jakub Jelinek’s patch to use dl_iterate_phdr for dynamic library traversal to dyn_load.c. Changed it to weakly reference dl_iterate_phdr, so that the old code is still used with old versions of glibc.
- Cleaned up feature test macros for various threads packages and integrated (partially functional) FreeBSD threads code from Loren Rittle. It’s likely that the cleanup broke something, since it touched lots of code. It’s also likely that it fixed some unreported bugs in the less common thread implementations, since some of the original code didn’t stand up to close scrutiny. Support for the next pthreads implementation should be easier to add.

Since 6.1alpha1:
- No longer wrap read by default in multithreaded applications. It was pointed out on the libgcj list that this holds the allocation lock for way too long if the read blocks. For now, reads into the heap are broken with incremental collection. It’s possible to turn this back on if you make sure that read calls don’t block (e.g. by calling select first).
- Fix ifdef in Solaris_threads.h to refer to GC_SOLARIS_THREADS.
- Added check for environment variable GC_IGNORE_GCJ_INFO.
- Added printing of stop-the-world GC times if GC_PRINT_STATS environment variable is set.
- The calloc definition in leak_detector.h was missing parentheses, and realloc was missing a second argument to GC_REALLOC. (Thanks to Elrond (elrond<at>samba-tng.org).)
- Added GC_PRINT_BACK_HEIGHT environment variable and associated code, mostly in the new file backgraph.c. See doc/README.environment.
- Added -DUSE_GLOBAL_ALLOC to work around a Windows NT issue. (Thanks to Jonathan Clark.)
- Integrated port to NEC EWS4800 (MIPS-based workstation, with somewhat different address-space layout). This may help for other machines with holes in the data segment. (Thanks to Hironori Sakamoto.)
- Changed the order in which GC_push_roots and friends push things onto the mark stack. GC_push_all calls need to come first, since we can’t necessarily recover if those overflow the mark stack. (Thanks to Matthew Flatt for tracking down the problem.)
- Some minor cleanups to mostly support the Intel compiler on Linux/IA64.

Since 6.1 alpha2:
- Minor cleanup on the gcconfig.h section for SPARC.
- Minor fix to support Intel compiler for I386/Linux. (Thanks to Sven Hartrumpf.)
- Added SPARC V9 (64-bit) support. (Thanks to Jeff Sturm.)
- Restructured the way in which we determine whether or not to keep call stacks for debug allocation. By default SAVE_CALL_COUNT is now zero on all platforms. Added SAVE_CALL_NARGS parameters.
If possible, use execinfo.h to capture call stack. (This should add support for a number of new platforms, though often at considerable runtime expense.)

- Try to print symbolic information for call stacks. On Linux, we do this with a combination of execinfo.h and running addr2line in a separate process. This is both much more expensive and much more useful. Amazingly, it seems to be fast enough for most purposes.
- Redefined strdup if -DREDIRECT_MALLOC is given.
- Changed incremental collector and MPROTECT_VDB implementation so that, under favorable conditions, pointerfree objects are not protected. Added GC_incremental_protection_needs() to determine ahead of time whether pointerfree objects may be protected. Replaced GC_write_hint() with GC_remove_protection().
- Added test for GC_ENABLE_INCREMENTAL environment variable.
- Made GC_time_limit runtime configurable. Added GC_PAUSE_TIME_TARGET environment variable.
- Eliminated GC_page_sz, a duplicate of GC_page_size.
- Caused the Solaris and Irix thread creation primitives to call GC_init_inner().

Since 6.1alpha3:
- Fixed typo in sparc_mach_dep.S, preventing the 64-bit version from building. Increased 64-bit heap size limit in test.c slightly, since a functional SPARC collector seems to slightly exceed the old limits. (Thanks again to Jeff Sturm.)
- Use NPRGREG in solaris_threads.c, thus printing all registers if things go wrong.
- Added GC_MARKERS environment variable to allow use of a single marker thread on an MP without confusing the lock implementation.
- Collect much less aggressively in incremental mode with GC_TIME_UNLIMITED. This is really a purely generational mode, and we can afford to postpone the collection until the heap is (nearly) full.
- Remove read() wrapper for MPROTECT_VDB. It was causing more harm than good. It is often no longer needed if system calls avoid writing to pointerfull heap objects.
- Fix MACOSX test in gcconfig.h. (Thanks to John Clements.)
- Change GC_test_and_set so that it consistently has one argument. Add spaces to :: in powerpc assembly code in gc_locks.h. (Thanks to Ryan Murray.)
- Fixed a formatting error in dbg_mlc.c. Added prototype to GC_abort() declaration. (Thanks to Michael Smith.)
- Removed "source" argument to GC_find_start(). Eliminate GC_FIND_START().
- Added win32 recognition code in configure.in. Changed some of the dllimport/export defines in gc.h. (Thanks to Adam Megacz.)
- GC_malloc_many didn't set hb_last_reclaimed when it called GC_reclaim_generic. (I'm not sure this matters much, but ...)
- Allocating uncollectable objects with debug information sometimes allocated objects that were one byte too small, since uncollectable
objects don't have the extra byte added at the end. (Thanks to Wink Saville for pointing this out.)

- Added a bit more assertion checking to make sure that gcj objects on free lists never have a nonzero second word.

- Replaced BCC_MAKEFILE with an up-to-date one. (Thanks to Andre Leiradella.)

- Upgraded libtool, configure.in and some related files to hopefully support NetBSD/SPARC. (Thanks to Adrian Bunk.) Unfortunately, libtool 1.4.2 seemed to be buggy due to missing quotes in several "test" invocations. Fixed those in the ltmain.sh script.

- Some win32-specific patches, including the introduction of GC_CreateThread. (Thanks to Adam Megacz.)

- Merged in gcj changes from Anthony Green to support embedded systems.

- Tried to consistently rename preprocessed assembly files with a capital .S extension.

- Use alpha_mach_dep.S on ALPHA again. It doesn't really matter, but this makes our distribution consistent with the gcc one, avoiding future merge problems.

- Move GET_MEM definition into gcconfig.h. Include gcconfig.h slightly later in gc_priv.h to avoid forward references to ptr_t.

- Add some testing of local allocation to test.c.

- Change definition of INVALID_QTID in specific.h. The -1 value was used inconsistently, and too likely to collide with a valid stack address.

Some general clean-up of specific.[ch]. Added assertions. (Thanks to Michael Smith for tracking down an intermittent bug to this general area. I'm not sure it has been squashed yet, however.)

- On Pthread systems it was not safe to call GC_malloc() between fork() and exec(). According to the applicable standards, it doesn't appear to be safe to call malloc() or many other libc functions either, thus it's not clear this is fixable. Added experimental support for -DHANDLE_FORK in linux_threads.c which tries to support it. It may succeed if libc does the right thing. I'm not sure whether it does. (Thanks to Kenneth Schalk for pointing out this issue.)

- Documented thread local allocation primitives to require an explicit GC_init call. GC_init_parallel is no longer declared to be a constructor function, since that isn't portable and often seems to lead to initialization order problems.

- Changed gc_cpp.cc and gc_cpp.h in one more attempt to make them compatible with Visual C++ 6. (Thanks to Wink Saville for the patch.)

- Some more patches for Linux on HP PA-RISC.

- Added include/ge_allocator.h. It implements (hopefully) standard conforming (as opposed to SGI-style) allocators that allocate collectable (gc_allocator) or GC-traceable, but not collectable (traceable_allocator) objects. This borrows heavily from libstc++, which borrows heavily from the SGI implementation, this part of which was written by Matt Austern. Changed test_cpp.cc to very minimally test this.
- On Linux/X86, retry mmap with a different start argument. That should allow the collector to use more (closer to 3GB) of the address space. (Thanks to Jeffrey Mark Siskind for tracking this down.)
- Force 64 bit alignment with GCJ support. (Reflects Bryce McKinley's patch to the gcc tree.)
- Refined the choice of sa_handler vs. sa_sigaction in GCDirtyInit to accommodate some glibc5 systems. (Thanks to Dan Fandrich for the patch.)
- Compensated for the fact that current versions of glibc set __libc_stack_end incorrectly on Linux/IA64 while initialization code is running. This could cause the collector to miss 16 bytes of the memory stack if GC_malloc or friends where called before main().
- Mostly integrated Takis Psarogiannakopoulos' port to DG/UX Inix 86. This will probably take another iteration to work, since his patch conflicted with the libtool upgrade.
- Added README.arm.cross containing some information about cross-compiling to an ARM processor from Margaret Fleck.

Since 6.1alpha4:
- Added GCFinalizerMemFreed, and changed some of the code that decided on heap expansion to look at it. Memory explicitly deallocated by finalizers essentially needs to be counted as reclaimed by the GC. Otherwise there are cases in which the heap can grow unboundedly. (Thanks to Mark Reichert for the test case.)
- Integrated Adam Megacz patches to not scan dynamic libraries if we are compiling with gcc on win32. Otherwise we need structured exception handling to deal with asynchronously unmapped root segments, and gcc doesn't directly support that.
- Integrated Anthony Green's patch to support Wine.
- GC_OPERATOR_NEW_ARRAY was misspelled OPERATOR_NEW_ARRAY in several places, including gc_cpp.cc. (Thanks to Wink Saville for pointing this out.)
- Integrated Loren James Rittle's Alpha FreeBSD patches. In response to Richard Henderson's suggestion, these also changed the declarations of symbols like _end on many platforms to that they wouldn't mistakenly be declared as short data symbols.
- Integrated changes from the Debian distribution. (Thanks to Ryan Murray for pointing these out.) Fix C++ comments in POWERPC port. Add ARM32 incremental GC support. Get rid of USE_GENERIC_PUSH_REGS for alpha/Linux, this time for real. Use va_copy to get rid of cord printf problems (finally).
- Close file descriptor used to count cpus. Thanks to Jeff Sturm for pointing out the omission.
- Don't just drop gcj free lists in GC_start_reclaim, since that can eventually cause the marker to see a bogus mark descriptor in the dropped objects. The usual symptom was a very intermittent segmentation fault in the marker. This mattered only if one of the GC.gcj_malloc variants was used. (Thanks to Michael Smith, Jeff Sturm, Bryce
- Fixed Linux and Solaris/64 SPARC configuration. (Thanks to David Miller,
  Jeff Sturm, Tom Tromey, and Christian Joensson.)
- Fixed a typo in strdup definition. (Thanks to Gerard A Allan.)
- Changed Makefile.direct to invoke $CC to assemble alpha_mach_dep.S.
  This is needed on Linux. I'm not sure whether it's better or worse
  on Tru64.
- Changed gc_cpp.h once more to declare operator new and friends only in
  a Microsoft environment. This may need further fine tuning. (Thanks to
  Johannes Schmidt for pointing out that the older code breaks on gcc3.0.4.)
- Don't ever override strdup if it's already macro defined. (Thanks to
  Adnan Ali for pointing out the problem.)
- Changed gc_cpp.h yet again to also overload placement new. Due to the
  C++ overloading rules, the other overloaded new operations otherwise hide
  placement new, which causes many STL uses to break. (Thanks to Reza
  Shahidi for reporting this, and to Matt Austern for proposing a fix.)
- Integrated cygwin pthreads support from Dan Bonachea.
- Turn on DYNAMIC_LOADING for NetBSD. (Thanks to Krister Walfridsson.)
- Changed printing code to print more complete GC times.
- Applied Mark Mitchell's Irix patch to correct some bitrot.
- Clarified which object-printing routines in dbg_mlc.c should hold
  the allocation lock. Restructured the code to allow reasonable object
  printing with -DREDIRECT_MALLOC.
- Fix the Linux mmap code to always start with 0x1000 as the initial hint.
  Minor patches for 64-bit AIX, particularly to STACKBOTTOM.
  (Thanks again to Jeffrey Mark Siskind.)
- Renamed "SUSPENDED" flag for Solaris threads support to avoid a conflict
  with a system header. (Thanks to Philp Brown.)
- Cause win32_threads.c to handle an out of range stack pointer correctly,
  though currently with a warning. (Thanks to Jonathan Clark for
  observing that win32 applications may temporarily use the stack
  pointer for other purposes, and suggesting a fix. Unfortunately, it's
  not clear that there is a complete solution to this problem.)

Since 6.1alpha5:
- Added GC_MAXIMUM_HEAP_SIZE environment variable.
- Fix configure.in for MIPS/LINUX. (Thanks to H.J. Lu.)
- Double page hash table size for -DLARGE_CONFIG.
- Integrated Bo Thorsen's X86-64 support.
- STACKBOTTOM definition for LINUX/MIPS was partially changed back.
  (Thanks to H.J. Lu and Hiroshi Kawashima for resolving this.)
- Replaced all occurrences of LINUX_DATA_START in gcconfig.h with
  SEARCH_FOR_DATA_START. It doesn't hurt to fall back to a search.
  And __data_start doesn't seem to get defined correctly of the GC
  library is loaded with LD_PRELOAD, e.g. for leak detection.
- If the GC_find_leak environment variable is set, do a
  atexit(GC_gcollect) to give us at least one chance to detect leaks.
  This may report some very benign leaks, but ...
- Added REDIRECT_FREE. It's necessary if we want leak detection with LD_PRELOAD.
- Defer printing of leaked objects, as for smashed objects.
- Fixed process and descriptor leak in GC_print_callers. Try for line number even if we got function name.
- Ported parallel GC support and thread local allocation to Alpha. Not yet well-tested.
- Added GC_DUMP_REGULARLY and added finalization statistics to GC_dump().
- Fixed Makefile.am to mention alpha_mach_dep.S instead of the defunct alpha_mach_dep.s. (Thanks to Fergus Henderson.)
- Incorporated a change to new_gc_alloc.h, suggested by Johannes Schmidt, which should make it work with gcc3.1. (I would still like to encourage use of gc_allocator.h instead.)
- Use alpha_mach_dep.S only on Linux. (It's not clear that this is optimal, but it otherwise didn't build on Tru64. Thanks to Fergus Henderson.)
- Added ifdef to guard free() in os_dep.c. Otherwise we get a compilation error on Irix. (Thanks to Dai Sato.)
- Added an experimental version of GC_memalign to mallocx.c. This can't always work, since we don't handle alignment requests in the hblk-level allocator, and we can't handle arbitrary pointer displacements unless GC_all_interior_pointers is enabled. But it should work for alignment requests up to HBLKSIZE. This is not yet documented in the standard places.
- Finally debugged the OSF1/Tru64 thread support. This needs more testing, since I needed to add a somewhat unconvincing workaround for signal delivery issues that I don't yet completely understand. But it does pass my tests, even in parallel GC mode. Incremental GC support is disabled if thread support is enabled, due to the signal issues.
- Eliminated name-space-incorrect definition of cdecl from gc_cpp.h.
- Added GC_debug_malloc_replacement and GC_debug_realloc_replacement declarations to gc.h. On IA64, this is required for REDIRECT_MALLOC to work correctly with these.
- Fixed Linux USE_PROC_FOR_LIBRARIES to work with a 64-bit /proc format.

Since 6.1:
- Guard the test for GC_DUMP_REGULARLY in misc.c with 
"#ifndef NO_DEBUGGING". Otherwise it fails to build with NO_DEBUGGING defined. (Thanks to Manuel Serrano.)
- Message about retrying suspend signals was incorrectly generated even when flag was not set.
- Cleaned up MACOSX/NEXT root registration code. There was apparently a separate ifdef case in GC_register_data_segments() for no reason.
- Removed MPROTECT_VDB for MACOSX port, based on one negative report.
- Arrange for gc.h and friends to be correctly installed with GNU-style "make install".
- Enable the GNU-style build facility include C++ support in the library with --enable-cplusplus. (Thanks to Thomas Maier for some of the patch.)
- Mark from GC_thread_key in linux_threads.c, in case that's allocated from the garbage collected heap, as it is with our own thread-specific storage implementation. (Thanks to Jeff Sturm.)
- Mark all free list header blocks if they are heap allocated. This avoids some unnecessary tracing. And it remains correct if we clear the root set. (Thanks to Jeff Sturm for identifying the bug.)
- Improved S390/Linux support. Add S390/Linux 64-bit support. (Thanks to Ulrich Weigand.)
- Corrected the spelling of GC_{M,C}ALLOC_EXPLICITLY_TYPED to GC_{M,C}ALLOC_EXPLICITLY_TYPED in gc_typed.h. This is technically an interface change. Based on the fact that nobody reported this, I suspect/hope there were no clients.
- Cleaned up gc_typed.h so that (1) it adds an extern "C" declaration when appropriate, (2) doesn't generate references to undefined internal macros, and (3) allows easier manual construction of descriptors.
- Close the file descriptor used by GC_print_address_map().
- Set the "close-on-exec" bit for various file descriptors maintained for the collector's internal use.
- Added a hack to find memory segments owned by the system allocator under win32. Based on my tests, this tends to eventually find all segments, though it may take a while. There appear to be cleaner, but slower solutions under NT/XP. But they rely on an API that's unsupported under 9X.
- Changed Linux PowerPC stack finding to LINUX_STACKBOTTOM. (Thanks to Akira Tagoh for pointing out that HEURISTIC1 doesn't work on 64-bit kernels.)
- Added GC_set_free_space_divisor to avoid some Windows dll issues.
- Added FIXUP_POINTER, POINTER_SHIFT, POINTER_MASK to allow preprocessing of candidate pointers for tagging, etc.
- Always lock around GC_notify_full_gc(). Simplified code for invoking GC_notify_full_gc().
- Changed the way DATASTART is defined on FreeBSD to be robust against an unmapped page after etext. (Thanks to Hironori Sakamoto for tracking down the intermittent failure.)
- Made GC_enable() and GC_disable() official. Deprecated direct update of GC_dont gc. Changed GC_gcollect to be a noop when garbage collection is disabled.
- Call GC_register_dynamic_libraries before stopping the world on Linux, in order to avoid a potential deadlock due to the dl_iterate_phdr lock.
- Introduced a more general mechanism for platform-dependent code to decide whether the main data segment should be handled separately from dynamic libraries, or registered by GC_register_dynamic_libraries. The latter is more reliable and easier on Linux with dl_iterate_phdr.

Since 6.2alpha1:
- Fixed the completely broken FreeBSD code in 6.2alpha1. (Thanks to Hironori Sakamoto for the patch.)
- Changed IRIX reference in dbg_mlc.c to IRIX5. (Thanks to Marcus Herbert.)
- Attempted to work around the problems with .S filenames and the SGI compiler. (Reported by several people. Untested.)
- Worked around an HP/UX make issue with the GNU-style build process.
- Fixed the --enable-cplusplus build machinery to allow builds without a C++ compiler. (That was always the intent ...)
- Changed the debugging allocation macros to explicitly pass the return address for Linux and XXXBSD on hardware for which we can't get stack traces. Use __builtin_return_address(0) to generate it when possible.
Some of the configuration work was cleaned up (good) and moved to gc.h (bad, but necessary). This should make leak detection more useful on a number of platforms. (Thanks to Fabian Thyrlman for the suggestion.)
- Fixed compilation problems in dbg_mlc.c with GC_ADD_CALLER.
- Bumped revision number for dynamic library.

Since 6.2alpha2:
- Don't include execinfo.h in os_dep.c when it's not needed, and may not exist.

Since 6.2alpha3:
- Use LINUX_STACKBOTTOM for >= glibc2.2 on Linux/MIPS. (See Debian bug # 177204)
- Integrated Jeff Sturm and Jesse Rosenstock's MACOSX threads patches.
- Integrated Grzegorz Jakacki's substantial GNU build patch. "Make dist" should now work for the GNU build process. Documentation files are installed under share/gc.
- Tweaked gc_cpp.h to again support the Borland compiler. (Thanks to Rene Girard for pointing out the problems.)
- Updated BCC_MAKEFILE (thanks to Rene Girard).
- Added GC_ASSERT check for minimum thread stack size.
- Added --enable-gc-assertions.
- Added some web documentation to the distribution. Updated it in the process.
- Separate gc_conf_macros.h from gc.h.
- Added generic GC_THREADS client-defined macro to set the appropriate GC_XXX_THREADS internal macro. (gc_config_macros.h.)
- Add debugging versions of _ignore_off_page allocation primitives.
- Moved declarations of GC_make_closure and GC_debug_invoke_finalizer from gc.h to gc_priv.h.
- Reset GC_fail_count even if only a small allocation succeeds.
- Integrated Brian Alliet's patch for dynamic library support on Darwin.
- gc_cpp.h's gc_cleanup destructor called GC_REGISTER_FINALIZER_IGNORE_SELF when it should have called the lower case version, since it was explicitly computing a base pointer.

Since 6.2alpha4:
- GC_invoke_finalizers could, under rare conditions, set GC_finalizer_mem_freed to an essentially random value. This could possibly cause unbounded heap growth for long-running applications under some conditions. (The bug was introduced in 6.1alpha5, and
- Attempted to sanitize the various DLL macros. GC_USE_DLL disappeared. GC_DLL is used instead. All internal tests are now on GC_DLL.

- Include DllMain in the multithreaded win32 version only if the collector is actually built as a dll. (Thanks to Mohan Embar for a version of the patch.)

- Hide the cygwin threadAttach/Detach functions. They were violating our namespace rules.

- Fixed an assertion in GC_check_heap_proc. Added GC_STATIC_ASSERT. (Thanks again to Ben Hutchings.)

- Include DllMain in the multithreaded win32 version only if the collector is actually built as a dll. (Thanks to Mohan Embar for a version of the patch.)

- Hide the cygwin threadAttach/Detach functions. They were violating our namespace rules.

- Include DllMain in the multithreaded win32 version only if the collector is actually built as a dll. (Thanks to Mohan Embar for a version of the patch.)

- Remove some obsolete definitions for Linux/PowerPC in gcconfig.h.

- CORD_cat was not rebalancing unbalanced trees in some cases, violating a CORD invariant. Also tweaked the rebalancing rule for CORD_cat_char_star. (Thanks to Alexandr Petrosian for the bug report and patch.)

- Added hand-coded structured exception handling support to mark.c. This should enable support of dynamic libraries under win32 with gcc-compiled code. (Thanks to Ranjit Mathew for the patch.)

- Removed some remnants of read wrapping. (Thanks to Kenneth Schalk.)

- GC_USE_LD_WRAP was probably broken in recent versions.

- The build could fail on some platforms since gcconfig.h could include declarations mentioning ptr_t, which was not defined, e.g. when if_mach was built. (Thanks to Yann Dirson for pointing this out.) Also cleaned up tests for GC_PRIVATE_H in gcconfig.h a bit.

- The GC_LOOP_ON_ABORT environment variable interfered with incremental collection, since the write fault handler was erroneously overridden. Handlers are now set up in the correct order.

- It used to be possible to call GC_mark_thread_local_free_lists() while the world was not stopped during an incremental GC. This was not safe. Fortunately, it was also unnecessary. Added GC_world_stopped flag to avoid it. (This caused occasional crashes in GC_set_fl_marks with thread local allocation and incremental GC. This probably happened primarily on old, slow multiprocessors.)

- Allowed overriding of MAX_THREADS in win32_threads.c from the build command line. (Patch from Yannis Bres.)

- Taught the IA64/linux code to determine the register backing store base from /proc/self/maps after checking the __libc symbol, but before guessing. (__libc symbols are on the endangered list, and the guess is likely to not always be right for 2.6 kernels.) Restructured the code to read and parse /proc/self/maps so it only exists in one place (all platforms).

- The -DUSE_PROC_FOR_LIBRARIES code was broken on Linux. It claimed that it also registered the main data segment, but didn't actually do so. (I don't think anyone actually uses this configuration, but ...)

- Made another attempt to get --enablecplusplus to do the right thing.

Since there are unavoidable problems with C programs linking against a dynamic library that includes C++ code, I separated out the c++ code into
libgccpp.

Since 6.2alpha5:
- There was an extra underscore in the name of GC_save_registers_in_stack for NetBSD/SPARC. (Thanks to Jaap Boender for the patch.)
- Integrated Brian Alliet's patch for Darwin. This restructured the linuxthreads/pthreads support to separate generic pthreads support from more the system-dependent thread-stopping code. I believe this should make it easier to eliminate the code duplication between pthreads platforms in the future. The patch included some other code cleanups.
- Integrated Dan Bonachea's patch to support AIX threads. This required substantial manual integration, mostly due to conflicts with other recent threads changes. It may take another iteration to get it to work.
- Removed HPUX/PA-RISC support from aix_irix_threads.c. It wasn't used anyway and it cluttered up the code. And anything we can do to migrate towards generic pthreads support is a good thing.
- Added a more explicit test for tracing of function arguments to test.c. (Thanks to Dan Grayson.)
- Added Akira Tagoh's PowerPC64 patch.
- Fixed some bit rot in the Cygwin port. (Thanks to Dan Bonachea for pointing it out.) Gc.h now includes just windows.h, not winbase.h.
- Declared GC_save_regs_in_stack() in gc_priv.h. Remove other declarations.
- Changed --enable-cplusplus to use automake conditionals. The old way confused libtool. "Make install" didn't work correctly for the old version. Previously --enable-cplusplus was broken on cygwin.
- Changed the C version of GC_push_regs to fail at compile time if it is generated with an empty body. This seems to have been the cause of one or two subtle failures on unusual platforms. Those failures should now occur at build time and be easily fixable.

Since 6.2alpha6:
- Integrated a second round of Irix/AIX patches from Dan Bonachea. Renamed mips_sgi_mach_dep.S back to mips_sgi_mach_dep.s, since it requires the Irix assembler to do the C preprocessing; gcc -E doesn't work.
- Fixed Makefile.direct for DARWIN. (Thanks to Manuel Serrano.)
- There was a race between GC_pthread_detach and thread exit that could result in a thread structure being deallocated by GC_pthread_detach even though it was still needed by the thread exit code. (Thanks to Dick Porter for the small test case that allowed this to be debugged.)
- Fixed version parsing for non-alpha versions in acinclude.m4 and version checking in version.h.

Since 6.2:
- Integrated some NetBSD patches forwarded to me by Marc Recht. These were already in the NetBSD package.
- GC_pthread_create waited for the semaphore even if pthread_create failed.
Thanks to Dick Porter for the pthread_support.c patch. Applied the analogous fix for aix_irix_threads.c.
- Added Rainer Orth's Tru64 fixes.
- The check for exceeding the thread table size in win32 threadDetach was incorrect. (Thanks to Alexandr Petrosian for the patch.)
- Applied Andrew Begel's patch to correct some reentrancy issues with dynamic loading on Darwin.
- GC_CreateThread() was neglecting to duplicate the thread handle in the table. (Thanks to Tum Nguyen for the patch.)
- Pass +ESdbgasm only on PA-RISC machines with vendor compiler. (Thanks to Roger Sayle for the patch.)
- Applied more AIX threads patches from Scott Ananian.

Since 6.3alpha1:
- Reenabled I_HOLD_LOCK assertion in aix_irix_threads.h.
- Put back the WINABI qualifier for GC_CreateThread. (Thanks to Danny Smith for the patch.  6.3alpha1 had the qualifier in one place but not elsewhere, which was clearly wrong.)
- Sometimes explicitly define __private_extern__ before DARWIN dyld.h include. (Thanks to Andreas Tobker for posting the patch.)
- Included signal.h from pthread_support.c. Removed GC_looping_handler, which was dead code.
- GC_find_start was misdeclared by gc_pmark.h if PRINT_BLACK_LIST was defined. (Thanks to Glauco Masotti for testing and reporting this.)
  Changed GC_find_start to never just return 0. According to its comment it doesn't, and it's unclear that's correct.
- GC_alloc_large had several largely compensating bugs in the computation of GC_words_wasted. (It was confused about bytes vs. words in two places.)
- Integrated Slava Sysoltev's patch to support more recent versions of the Intel compiler on IA64/Linux.
- Changed win32 spinlock initialization to conditionally set a spin count. (Emmanuel Stumpf pointed out that enabling this makes a large performance difference on win32 multiprocessors.) Also cleaned up the win32 spinlock initialization code a bit.
- Fixed thread support for HP/UX/IA64. The register backing store base for the main thread was sometimes not set correctly. (Thanks to Laurent Morichetti.)
- Added -DEmpty_GETENV_RESULTS flag to work around Wine problem.
- Declare GC_stack_alloc and GC_stack_free in solaris_threads.h to avoid 64-bit size mismatches. (Thanks to Bernie Solomon.)
- Fixed GC_generic_push_regs to avoid a potential and very unfortunate tail call optimization. This could lead to prematurely reclaimed objects on configurations that used the generic routine and the new build infrastructure (which potentially optimizes mach_dep.c). This was a serious bug, but it's unclear whether it has resulted in any real failures.
- Fixed CORD_str to deal with signed characters. (Thanks to Alexandr
Petrosian for noticing the problem and supplying the patch.)
- Merged a couple of NOSYS/ECOS tests into os_dep.c from gcj. (Thanks to Anthony Green.)
- Partially merged a win32 patch from Ben Hutchings, and substantially revised other parts of win32_threads.c. It had several problems. Under MinGW with a statically linked library, the main thread was not registered. Cygwin detached threads leaked thread descriptors. There were several race conditions. For now, unfortunately the static threads limit remains, though we increased it, and made table traversal cost depend on the actual thread count. There is also still some code duplication with pthread_support.c. (Thread descriptors did become much smaller, since Ben Hutchings removed the thread context from them.)
- Integrated a Solaris configure.in patch from Rainer Orth.
- Added GC_IGNORE_FB and associated warning to very partially address the issue of the collector treating a mapped frame buffer as part of the root set. (Thanks to David Peroutka for providing some insight. More would be helpful. Is there anything that can be used to at least partially identify such memory segments?)

Since 6.3alpha2:
- Removed -DSMALL_CONFIG from BCC_MAKEFILE.
- Changed macros to test for an ARM processor (Patch from Richard Earnshaw.)
- Mostly applied a DJGPP patch from Doug Kaufman. Especially Makefile.dj had suffered from serious bit rot.
- Rewrote GC_apply_to_maps, eliminating an off-by-one subscript error, and a call to alloca (for lcc compatibility).
- Changed USE_MUNMAP behavior on posixy platforms to immediately remap the memory with PROT_NONE instead of unmapping it. The latter risks an intervening mmap grabbing the address space out from underneath us. Updated this code to reflect a cleaner patch from Ulrich Drepper.
- Replaced _T with _Tp in new_gc_alloc.h to avoid a MACOS X conflict. (Patch from Andrew Begel.)
- Dynamically choose whether or not lock should spin on win32. (Thanks to Maurizio Vairani for the patch.) This may be a significant performance improvement for win32.
- Fix Makefile.direct to actually include NT_STATIC_THREADS_MAKEFILE in the distribution. (Again thanks to Maurizio Vairani.)
- Maybe_install_looping_handler() was accidentally exported, violating our name space convention.
- Made os_dep.c use sigsetjmp and SA_NODEFER for NetBSD. (Thanks to Christian Limpach.) (I generalized the patch to use sigsetjmp on all UNIX_LIKE platforms, admittedly a slightly risky move. But it may avoid similar problems on some other platforms. I also cleaned up the defn of UNIX_LIKE a bit. - Hans)
- Integrated Andrew Begel's Darwin threads patch, adjusted according to some of Fergus Henderson's comments. (Patch didn't apply cleanly, errors are possible.)
- Added another test or two for the Intel 8.0 compiler to avoid confusing it with gcc. The single-threaded collector should now build with icc, at least on ia64.

Since 6.3alpha3:
- USE_MMAP was broken by confusion in the code dealing with USE_MMAP_ANON. (This was pointed out, and fixes were suggested by several other people.)
- Darwin supprt was broken in alpha3 as a result of my misintegration of Andrew Begel's patches. Fixed with another patch from Andrew Begel.
- A new sanity check in pthread_stop_world.c:GC_push_all_stacks() was overly aggressive. We may collect from an unregistered thread during thread creation. Fixed by explicitly checking for that case. (Added GC_in_thread_creation.)

Since 6.3alpha4:
- Fix & vs && typo in GC_generic_malloc and GC_generic_malloc_ignore_off_page. (Propagated from the gcc tree.)
- Removed SA_NODEFER hack from NetBSD and Solaris write-protect handler. (According to Christian Limpach, the NetBSD problem is fixed. Presumably so is the Solaris 2.3 problem.)
- Removed placement delete from gc_cpp.h for the SGI compiler. (Thanks to Simon Gornall for the patch.)
- Changed semantics of the GC_IGNORE_FB environment variable, based on experimentation by Nicolas Cannasse pointing out that the old interpretation was useless. We still need help in identifying win32 graphics memory mappings. The current "solution" is a hack.
- Removed "MAKEOVERRIDES =" from Makefile.am and thus Makefile.in. It probably made more sense in the gcc context.
- Explicitly ensure that NEED_FIND_LIMIT is defined for {Open,Net}BSD/ELF.
- Replaced USE_HPPUX_TLS macro by USE_COMPILER_TLS, since gcc often supports the same extension on various platforms.
- Added some basic (completely untested) defines for win64, in support of future work.
- Declared GC_jmp_buf in os_dep.s as JMP_BUF instead of jmp_buf, fixing a memory overwrite bug on Solaris and perhaps other platforms.
- Added 0 != __libc_stack_end test to GC_linux_stack_base. (Thanks to Jakub Jelinek, both for the patch, and for explaining the problem to me.) Otherwise "prelink"ing could cause the collector to fail.
- Changed default thread local storage implementation to USE_PTHREAD_SPECIFIC for HP/UX with gcc. The compiler-based implementation appears to work only with the vendor compiler.
- Export GC_debug_header_size and GC_USR_PTR_FROM_BASE from gc_mark.h, making client mark code cleaner and less dependent on GC version.
- Export several new procedures and GC_generic_malloc from gc_mark.h to support user-defined kinds. Use the new procedures to replace existing code in gcj_mlc.c and typd_mlc.c.
- Added support for GC_BACKTRACES.
- Fixed a remaining problem in CORD_str with signed characters. (Thanks
to Alexandr Petrosian for the patch.)
- Removed supposedly redundant, but very buggy, definitions of finalizer macros from javaxfc.h. Fortunately this file probably has no users. The correct declarations were already in gc.h.
- Also need to set GC_in_thread_creation while waiting for GC during thread termination, since it is also possible to collect from an unregistered thread in that case.
- Define NO_GETENV for Windows CE, since getenv doesn't appear to exist.
  + some other minor WinCE fixes. (Thanks to Alain Novak.)
- Added GC_register_describe_type_fn.
- Arrange for debugging finalizer registration to ignore non-heap registrations, since the regular version of the routine also behaves that way.
- GC_gec_malloc and friends need to check for finalizers waiting to be run.
  One of the more obscure allocation routines with missing a LOCK() call.
- Fixed cvtres invocations in NT_MAKEFILE and NT_STATIC_THREADS_MAKEFILE to work with VS.NET.
- Cleaned up GC_INIT calls in test. Updated gc.man to encourage GC_INIT use in portable code.
- Taught the GC to use libunwind if --enable-full-debug is specified on IA64 and libunwind is present.
- The USE_MUNMAP code could get confused about the age of a block and prematurely unmap it. GC_unmap_old had a bug related to wrapping of GC_gc_no. GC_freehblk and GC_merge_unmapped didn't maintain hb_last_reclaimed reasonably when blocks were merged. The code was fixed to reflect original intent, but that may not always be an improvement. See todo list item.

Since 6.3alpha5:
- Define USE_GENERIC_PUSH_REGS for NetBSD/M68K.
- Fixed the X86_64 PREFETCH macros to correctly handle ia32e (which uses different prefetch instructions from AMD64). (Thanks to H.J. Lu.)
- GC_config_macros.h did not correctly define GC_WIN32_THREADS from GC_THREADS.
- Added simple_example.html.
- Merged Andrew Gray's patch to correctly restore signal handlers on FreeBSD.
- Merged a patch from Andreas Jaeger to deal with prefetch-related warnings on x86-64. Added some other casts so that the PREFETCH macros always get a ptr_t argument. Removed some casts in the PREFETCH implementations.
- At Jesse Jones suggestion: Added a header guard for gc_allocator.h and changed GC_debug_free to clobber contents of deallocated object.
- The signal masking code in pthread_stop_world.c contained some errors. In particular SIGSEGV was masked in the handler, in spite of the fact that it wrote to the heap. This could lead to an uncaught SIGSEGV, which apparently became much more likely in Linux 2.6. Also fixed some typos, and reduced code duplication in the same area.
- Remove ltconfig, clean up configure messages for DGUX (thanks to Adrian Bunk for the patches).
- Integrated NetBSD/OpenBSD patches from Marc Recht and Matthias Drochner.

Since gc6.3alpha6:
- Compile test_cpp.cc with CXXCOMPILE instead of COMPILE.
- Very large allocations could cause a collector hang. Correct calculation of GC_collect_at_heapsize.
- GC_print_hblkfreelist printed some bogus results if USE_MUNMAP was defined.
- The generic GC_THREADS macro didn't work correctly on Solaris, since the implementation failed to include gc_config_macros.h before deciding whether or not to compile the rest of the file.
- Threadlibs.c failed to expand the generic GC_THREADS macro.
- Correct MacOSX thread stop code. (Thanks to Dick Porter.)
- SMALL_OBJ definition was off by one. This could cause crashes at startup. (Thanks to Zoltan Varga for narrowing this down to a trivial test case.)
- Integrate Paolo Molara's patch to deal with a race in the Darwin thread stopping code.
- Changed X86_64 implementation to use SA_SIGINFO in the MPROTECT_VDB implementation. The old approach appears to have been broken by recent kernels.
- Add GC_ATTR_UNUSED to eliminate a warning in gc Allocator.h. (Thanks to Andrew Begel.)
- Fix GC_task_self declaration in os_dep.c. (Thanks to Andrew Pinski.)
- Increase INITIAL_BUF_SZ in os_dep.c for Solaris /proc reads.

Since 6.3:
- Merge gcconfig.h changes from gcc tree.
- Unconditionally include gc_priv.h in solaris_pthreads.c, win32_threads.h, aix_irix_threads.c, and solaris_threads.c to get thread definitions.
- Start marker threads in GC_thr_init, so that they get started even if no other threads are ever started. (Oddly enough, the parallel collector worked correctly, though not well, with no helper threads.)
- Go ahead and split large blocks in GC_allochblk_nth if GC_dont_gc is set. (Thanks to Alexander Petrossian.)
- GC_PRINT_BACK_HEIGHT would deadlock with thread support.
- Let in_progress_space in backgraph.s grow dynamically.
- Fix README.solaris2. The GC_thr_init() hack doesn't work anymore.
- Convert GC_finalizer_mem_freed to bytes in allocblk.c.
- Add missing declaration for GC_generic_malloc_words_small_inner. Without it, s390x breaks. (Thanks to Ulrich Weigand.)
- Applied several MacOSX patches to support older tool chains. (Thanks to Stefan Ring.)
- Bug fix for NetBSD/amd64. (Thanks to Marc Recht.) Add NetBSD/sh3 support. (Thanks to Uchiyama Yasushi.)
- Fixed an uninitialized variable in cordprint.c. (Thanks to gcc for
providing the warning.)
- Eliminated some, but not all, gcc -Wall warnings.
- Changed some old style casts to reinterpret_cast in new_gc_alloc.h.
  (Thanks to Dan Grayson.)
- GC.extend_size_map shouldn't adjust for GC.all_interior_pointers if
  GC.DONT_ADD_BYTE_AT_END is set.
- Changed some (long) casts to (word) in preparation for win64.
  (Thanks to Peter Colson.)
- Changed "int stack_size" declaration in pthread_support.c to use
  size_t. (Only mattered with GCASSERTIONS enabled.)
- Added CRIS (etrax) support. (Thanks to Simon Posnjak and
  Hans-Peter Nilsson.)
- Removed GCIGNORE_FB frame buffer recognition, and replaced
  it with a check that the mapping type is MEM_IMAGE.
  In theory, this should work much better, but it is a high
  risk change for win32. (Thanks to Ashley Bone for the crucial
  experimental data behind this, and to Rutger Ovidus for
  some further experiments.)
- Fixed print_block_list to print the correct kind number for
  STUBBORN. (Thanks to Rutger Ovidus.)
- GC.allochblk_nth incremented GC.words_wasted by bytes rather than
  words.
- Consider GC.words_wasted in GC.adj_words_allocated only if it is within
  reason. (A hack to avoid some extremely unlikely scenarios in which
  we manage to allocate only "wasted" space. 7.0 has a better fix.)
- Changed PowerPC GC.clear implementation to use lwsync instead of
eieio, since the documentation recommends against eieio, and
it seems to be incorrect if the preceding memory op is a load.
- Fixed print_block_list to print the correct kind number for
  STUBBORN. (Thanks to Rutger Ovidus.)
- Have configure.in generate an error if it is asked to support
  pthreads, but doesn't know how to.
- Added Kazuhiro Inaoka's patch for Renesas M32R support.
- Have the GNU build mechanism link with -ldl. Rename THREADLIBS
  to THREADDLLIBS to reflect this. (Thanks to Sven Verdooolage.)
- Added Hannes Mehnert's patch for FreeBSD/SPARC support.
- Merged some FreeBSD specific patches to threadlibs.c and dyn_load.c.
  (Thanks tp John Merryweather Cooper.)
- Define MPROTECT_VDB on MACOSX only if threads are being used, since the
  dirty page tracking mechanism uses threads. (This avoids an undefined
  reference to _GC_darwin_register_mach_handler_thread.)
- By popular demand, use __libc symbols only if we are built with
  USE_LIBC_PRIVATES, which is off by default, and not otherwise documented.
- Ignore GC.enable_incremental() requests when KEEP_BACK_PTRS is set.
  The GC itself will dirty lots of pages in this cases, probably making
  it counterproductive on all platforms. And the DARWIN port crashes.

Since GC6.4:
- Integrated Paolo Molaro's patch to deal with EINTR in sem_wait.
- Make GC_approx_sp() write to dummy location to ensure that stack is grown here, when sp looks reasonable, rather than later, when it might look like a bad memory reference. (Problem was never observed that I know of. But on rereading the code it seemed dubious.)
- Separate out GC_with_callee_saves_pushed and sometimes call it from GC_suspend_handler in pthread_stop_world.c. Callee-save register values sometimes failed to get traced under HP/UX on PA-RISC. Linux/IA64 had the same problem, though non-stacked callee-save registers seem to be so rarely used there that nobody ever noticed.
- Integrated an ancient Darwin powerpc_darwin_machine_dep.s patch from Andreas Tobler, which I had lost.
- Fix compare_and_exchange implementation for gcc/IA64 to deal with pickier compiler versions.
- Fixed Itanium 32-bit ABI support (HP/UX). In particular, the compare_and_exchange implementation didn't consider that possibility.
- Undefine GC_pthread_detach in win32_threads.c. (Thanks to Tagliapietra Tommaso)
- Fixed inclusion of frame.h for NETBSD in os_dep.c.
- Applied Dan Bonachea's patch to use mmap on AIX.
- Several fixes to resurrect the Irix port on recent OS versions.
- Change ALPHA to use LINUX_STACKBOTTOM.
- Change SPARC64/LINUX to also use LINUX_STACKBOTTOM. Deal with potential bad values of __libc_stack_end on that platform. (Thanks to David Miller.)
- Relax gctest to allow larger heap if ALIGN_DOUBLE isn't set. (Unnecessary in 7.0)
- Force a define of __STDC__=0 for the IBM compiler on AIX, so that we get prototypes. (Unnecessary in 7.0)
- GC_INIT definition for AIX and CYGWIN referred to DATASTART and DATAEND which are only defined in private include files.
- Integrated some small gcconfig.h patches from Dan Bonachea. Also relaxed assertion about FreeBSD stack size in pthread_support.c.
- Integrated Andrew Begel's darwin_stop_world.c patch for 64-bit support. This may need additional work.
- Avoided potentially infinite recursion in GC_save_callers if the system backtrace calls malloc. The workaround currently requires __thread support if this code is used with threads.
- Avoided another similar infinite recursion by conditionally invoking GC_save_callers in alloc.c. (Thanks to Matthias Andree for helping to track down both of these.)
- Removed all traces of aix_irix_threads.c. AIX and Irix now use pthread_support.c and pthread_stop_world.c. The old code appeared to be unreliable for AIX, and was not regularly maintained.
- On Irix, ignore segments with MA_FETCHOP or MA_NOTCACHED attributed; they're not always safe to read.
- Fixed a previously vacuous assertion (diagnosed by the SGI compiler)
in GC_remove_from_fl.
- Fix stack_size assertion in GC_pthread_create.
- Fix assertion in GC_steal_mark_stack.

Since 6.5
- Fix CPU count detection for Irix and FreeBSD. (Thanks to Dan Bonachea.)
- Integrate Dan Bonachea's patch for the IBM XLC compiler on Darwin.
- Integrated Andreas Tobler's FreeBSD/PowerPC patch.
- Don't access the GC thread structure from the restart handler. It's
  unsafe, since the handler may run too late. (Thanks to Ben Maurer for
  tracking this down.)
- Applied Christian Thalinger's patch to change comment syntax in
  alpha_mach_dep.S.
- Added test for GC_no_dls in GC_dyld_image_add for DARWIN. (Thanks to
  Juan Jose Garcia Ripoli).
- Use LINUX_STACKBOTTOM for Linux/SH and LINUX/ARM. (Thanks to Sugioka
  Toshinobu and Christian Thalinger.)
- Rewrote GC_parse_map_entry. This assumed a fixed column layout of
  /proc/self/maps on Linux. This ceased to be true about 2 years ago.
  The old code is probably quite problematic with -DREDIRECT_MALLOC. It
  is also used by default for IA64, though I haven't seen actual failures
  there.
- More consistently define HBLKSIZE to 4096 on 64 bit architectures with
  4K pages. (Thanks to Andrew Haley.)
- With win32 threads, GC_stop_world needs to acquire GC_write_cs. (Thanks
  to Ben Hutchings for the observation and patch.)
- Move up struct callinfo declaration to make gcc 4.0.2. happy.

To do:
- The USE_MUNMAP code should really use a separate data structure
  indexed by physical page to keep track of time since last use of
  a page. Using hblk headers means we lose track of ages when
  blocks are merged, and we can't unmap pages that have been allocated and
  dropped by the blacklisting code. I suspect both of these matter.
- A dynamic libgc.so references dlopen unconditionally, but doesn't link
  against libdl.
- GC_proc_fd for Solaris is not correctly updated in response to a
  fork() call. Thus incremental collection in the child won't work
  correctly. (Thanks to Ben Cottrell for pointing this out.)
- --enable-redirect-malloc is mostly untested and known not to work
  on some platforms.
- There seem to be outstanding issues on Solaris/X86, possibly with
  finding the data segment starting address. Information/patches would
  be appreciated.
- Very large root set sizes (> 16 MB or so) could cause the collector
  to abort with an unexpected mark stack overflow. (Thanks again to
  Peter Chubb.) NOT YET FIXED. Workaround is to increase the initial
  size.
- The SGI version of the collector marks from mmapped pages, even if they are not part of dynamic library static data areas. This causes performance problems with some SGI libraries that use mmap as a bitmap allocator. NOT YET FIXED. It may be possible to turn off DYNAMIC_LOADING in the collector as a workaround. It may also be possible to conditionally intercept mmap and use GC_exclude_static_roots. The real fix is to walk rld data structures, which looks possible.
- Incremental collector should handle large objects better. Currently, it looks like the whole object is treated as dirty if any part of it is.

Compatibility test suites that use lib/compat.exp test interoperability of two compilers that follow the same ABI, or of multiple sets of compiler options that are not intended to affect binary compatibility. They do not test conformance to a formal ABI; they check that things are done consistently, not that they are done correctly. They are meant to complement ABI test suites, not to replace them.

Each test in these suites splits up functionality into two source files that can be compiled with two different versions of GCC and with two sets of compiler options.

Override the default pairs of compiler options (from compat.exp) by defining the environment variable COMPAT_OPTIONS as:

COMPAT_OPTIONS="[list [list {tst1} {alt1}]...[list {tstn} {altn}]]"

where tsti and alti are lists of options, with "tsti" used by the compiler under test and "alti" used by the alternate compiler. The characters "," and ""]" are really in the string, as in 

"[list [list {g} {-O3}] [list {-O3} {g}]]"

To use an alternate compiler, define the environment variable for the language you're testing; e.g., for C++ define ALT_CXX_UNDER_TEST to be the full pathname of an installed compiler. That will be written to the site.exp file used by DejaGNU. The default is to build each test with the compiler under test using the first of each pair of compiler options from COMPAT_OPTIONS. When ALT_CXX_UNDER_TEST is "same", each test is built using the compiler under test but with combinations of the options from COMPAT_OPTIONS. If the alternate compiler needs a different setting for LD_LIBRARY_PATH, specify it in the environment variable ALT_LD_LIBRARY_PATH. If it needs different options to build a shared object, define those in ALT_SHOBJ_OPTIONS.

Normally, only a small amount of compatibility tests is run. Setting RUN_ALL_COMPAT_TESTS=1 in the environment before running the testsuite enables running all compatibility tests, but might take significantly longer than it takes without this variable.

To run only the C++ compatibility tests, optionally specifying an
alternate compiler and/or sets of options, do from $objdir/gcc:

rm site.exp
make -k ALT_CXX_UNDER_TEST=<prefix>/bin/g++ \  
ALT_LD_LIBRARY_PATH=<prefix>/lib \ 
COMPAT_OPTIONS="list as shown above" check-c++ \ 
RUNTESTFLAGS="compat.exp"

A test that fails when the pieces are compiled with different compilers but passes when the pieces are compiled with the same compiler demonstrates incompatibility of the generated code or runtime support. A test that fails for the alternate compiler but passes for the compiler under test probably tests for a fix that is not present in the alternate compiler.

There's a lot more that can be done with these tests.

Increase the robustness of the existing tests:

- recognize target triples in dg-options strings in test files

- continue to split up tests that rely on language runtime support and add them to this set of tests

- make sure they work for testing with a simulator

- multilibs support?

Build test pieces into more combinations that will be likely to find unusual errors:

- link using the alternate compiler; this requires support for LD_LIBRARY_PATH for the alternate compiler in the support for each language

- build pieces of the test into static libraries; this requires knowledge about how to build a static library for each target

Continue to add tests to g++dg/compat, based on existing tests for language runtime support and for test cases in PRs that didn't used to fit into the test suite.

Set up similar tests in libstdc++v3/testsuite.

Set up similar tests for additional languages and libraries.

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All files under this contrib directory are UNSUPPORTED. There were provided by users of zlib and were not tested by the authors of zlib. Use at your own risk. Please contact the authors of the contributions for help about these, not the zlib authors. Thanks.

ada/  by Dmitriy Anisimkov <anisimkov@yahoo.com>
    Support for Ada
    See http://zlib-ada.sourceforge.net/

asm586/
asm686/  by Brian Raiter <breadbox@muppetlabs.com>
    asm code for Pentium and PPro/PII, using the AT&T (GNU as) syntax
    See http://www.muppetlabs.com/~breadbox/software/assembly.html

blast/  by Mark Adler <madler@alumni.caltech.edu>
    Decompressor for output of PKWare Data Compression Library (DCL)

delphi/ by Cosmin Truta <cosmint@cs.ubbcluj.ro>
    Support for Delphi and C++ Builder

dotzlib/ by Henrik Ravn <henrik@ravn.com>

infback9/ by Mark Adler <madler@alumni.caltech.edu>
    Unsupported diffs to infback to decode the deflate64 format

inflate86/ by Chris Anderson <christop@charm.net>
    Tuned x86 gcc asm code to replace inflate_fast()

iostream/ by Kevin Ruland <kevin@rodin.wustl.edu>
    A C++ I/O streams interface to the zlib gz* functions

iostream2/ by Tyge L"vset <Tyge.Lovset@cmr.no>
    Another C++ I/O streams interface

iostream3/ by Ludwig Schwardt <schwardt@sun.ac.za>
    and Kevin Ruland <kevin@rodin.wustl.edu>
    Yet another C++ I/O streams interface

masm686/ by Dan Higdon <hdan@kinesoft.com>
and Chuck Walbourn <chuckw@kinesoft.com>
asm code for Pentium Pro/PII, using the MASM syntax

masmx64/ by Gilles Vollant <info@winimage.com>
x86 64-bit (AMD64 and Intel EM64t) code for x64 assembler to
replace longest_match() and inflate_fast()

masmx86/ by Gilles Vollant <info@winimage.com>
x86 asm code to replace longest_match() and inflate_fast(),
for Visual C++ and MASM

minizip/ by Gilles Vollant <info@winimage.com>
Mini zip and unzip based on zlib
See http://www.winimage.com/zLibDll/unzip.html

pascal/ by Bob Dellaca <bobdl@xtra.co.nz> et al.
Support for Pascal

puff/ by Mark Adler <madler@alumni.caltech.edu>
Small, low memory usage inflate. Also serves to provide an
unambiguous description of the deflate format.

testzlib/ by Gilles Vollant <info@winimage.com>
Example of the use of zlib

untgz/ by Pedro A. Aranda Gutierrez <paag@tid.es>
A very simple tar.gz file extractor using zlib

vstudio/ by Gilles Vollant <info@winimage.com>
Building a minizip-enhanced zlib with Microsoft Visual Studio
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agr@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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modified is included with the above copyright notice.

Please send bug reports to Hans-J. Boehm (Hans_Boehm@hp.com or boehm@acm.org).

This is a string packages that uses a tree-based representation. See cord.h for a description of the functions provided. Ec.h describes "extensible cords", which are essentially output streams that write to a cord. These allow for efficient construction of cords without requiring a bound on the size of a cord.

More details on the data structure can be found in


A fundamentally similar "rope" data structure is also part of SGI's standard template library implementation, and its descendents, which include the GNU C++ library. That uses reference counting by default. There is a short description of that data structure at http://reality.sgi.com/boehm/ropeimpl.html . (The more official location http://www.sgi.com/tech/stl/ropeimpl.html is missing a figure.)

All of these are descendents of the "ropes" in Xerox Cedar.

de.c is a very dumb text editor that illustrates the use of cords. It maintains a list of file versions. Each version is simply a cord representing the file contents. Nonetheless, standard editing operations are efficient, even on very large files. (Its 3 line "user manual" can be obtained by invoking it without arguments. Note that ^R^N and ^R^P move the cursor by almost a screen. It does not understand tabs, which will show up as highlighted 'I's. Use the UNIX "expand" program first.) To build the editor, type "make cord/de" in the gc directory.

This package assumes an ANSI C compiler such as gcc. It will not compile with an old-style K&R compiler.

Note that CORD_printf iand friends use C functions with variable numbers of arguments in non-standard-conforming ways. This code is known to break on some platforms, notably PowerPC. It should be possible to build the remainder of the library (everything but cordprnt.c) on any platform that supports the collector.

Building cross-compiler Debian packages

-------------------------------------------------------------

It is possible to build C and C++ cross compilers and support libraries
from gcc-4.0 source package. This document describes how to do so.
Cross-compiler build support is not perfect yet, please send fixes
and improvements to debian-gcc@lists.debian.org and
debian-embedded@lists.debian.org

Before you start, you should probably check available pre-built
cross-toolchain debs. Available at http://www.emdebian.org

Old patches could be reached at
http://zigzag.lvk.cs.msu.su/~nikita/debian/

If they are no longer there, you may check EmDebian web site at
http://www.emdebian.org/
or ask debian-embedded@lists.debian.org for newer location.

Please check http://bugs.debian.org/391445 if you are about building
gcc-4.3 or above.

Most of them has been merged with gcc debian sources.

0. What's wrong with toolchain-source approach

Package toolchain-source contains sources for binutils and gcc, as well as
some support scripts to build cross-compiler packages. They seem to work.

However, there is one fundamental problem with this approach.
Gcc package is actively maintained and frequently updated. These updates
do contain bug fixes and improvements, especially for non-x86 architectures.
Cross-compilers built using toolchain-source will not get those fixes unless
toolchain-source package is updated after each binutils and gcc update.
The later is not hapenning in real life. For example, toolchain-source
was upgraded from gcc-3.2 to gcc-3.3 half a year later than gcc-3.3 became
Debian default compiler.

Keeping toolchain-source package up-to-date requires lots of work, and seems
to be a waste of time. It is much better to build cross-compilers directly
from gcc source package.

1. What is needed to build a cross-compiler from gcc-4.3 source

1.1. dpkg-cross package

Dpkg-cross package contains several tools to manage cross-compile environment.

It can convert native debian library and lib-dev packages for the target
architecture to binary-all packages that keep libraries and headers under
/usr/$TARGET/.
Also it contains helper tools for cross-compiling debian packages. Some of these tools are used while building libgcc1 and libstdc++ library packages. The resulting library packages follow the same conventions as library packages converted by dpkg-cross.

Currently, at least version 1.18 of dpkg-cross is needed for cross-gcc package build. Version 1.32 of dpkg-cross is needed in order to build gcc-4.3.

1.2. cross-binutils for the target

You need cross-binutils for your target to build cross-compiler. Binutils-multiarch package will not work because it does not provide cross-assemblers.

If you don't want to use pre-built cross-binutils packages, you may build your own from binutils debian source package, using patches posted to bug #231707. Please use the latest of patch versions available there.

Alternatively, you may use toolchain-source package to build cross-binutils (but in this case you will probably also want to use toolchain-source to build cross-compiler itself). However, multilib'ed cross-compilers may not build or work with these binutils.

1.3. libc for target

You also need libc library and development packages for the target architecture installed.

To get those, download linux-kernel-headers, libc6, and libc6-dev binary debs for your target, convert those using dpkg-cross -b, and install resulting -arch-cross debs. Consult dpkg-cross manual page for more information.

Building with/for alternative libc’s is not supported yet (but this is in TODO).

Note that if you plan to use your cross-toolchain to develop kernel drivers or similar low-level things, you will probably also need kernel headers for the exact kernel version that your target hardware uses.

2. Building cross-compiler packages

Get gcc-4.3 source package.

Unpack it using dpkg-source -x, and cd to the package directory.
Set GCC_TARGET environment variable to the target architecture name. Note that currently you should use debian architecture name (i.e. 'powerpc' or 'arm'), not GNU system type (i.e. 'powerpc-linux' or 'arm-linux'). Setting GCC_TARGET to GNU system type will cause cross-compiler build to fail.

Instead of setting GCC_TARGET, target architecture name may be put into debian/target file. If both GCC_TARGET is defined and debian/target file exists, GCC_TARGET is used.

Run debian/rules control. This will change debian/control file, adjusting build-depends. By default, the packages will not depend on the system -base package. A variable DEB_CROSS_INDEPENDENT has been merged with DEB_CROSS variable.

You can then build with either

$ GCC_TARGET=[arch] dpkg-buildpackage -rfakeroot

3. Using crosshurd

Jeff Bailey <jbailey@raspberryginger.com> suggests alternate way to setup environment to build cross-compiler, using 'crosshurd' package. Crosshurd is like debootstrap but cross-arch, and works on the Hurd, Linux and FreeBSD. (The name is historical).

If you setup your environment with crosshurd, you will need to fix symlinks in lib and usr/lib to be relative instead of absolute. For example:

lrwxrwxrwx 1 root root 20 2004-05-06 23:02 libcom_err.so -> /lib/libcom_err.so.2

Needs to be changed to:

lrwxrwxrwx 1 root root 20 2004-05-06 23:02 libcom_err.so -> ../../lib/libcom_err.so.2

Also, if you choose this method, set the environment variable 'with_sysroot' to point to the ABSOLUTE PATH where the crosshurd was done.

Note however that build-depends of cross-gcc and dependencies in generated libgcc1 and libstdc++ packages assume that you use dpkg-cross to set up your environment, and may be wrong or incomplete if you use alternate methods. But probably you don't care.

--
Nikita V. Youshchenko <yoush@debian.org> - Jun 2004
Hector Oron Martinez <hector.oron@gmail.com> - Oct 2006
6.5 update:
I disabled incremental GC on Darwin in this version, since I couldn't get gctest to pass when the GC was built as a dynamic library. Building with -DMPROTECT_VDB (and threads) on the command line should get you
/configure --enable-cplusplus results in a "make check" failure, probably because the ::delete override ends up in a separate dl, and Darwin dynamic loader semantics appear to be such that this is not really visible to the main program, unlike on ELF systems. Someone who understands dynamic loading needs to look at this. For now, gc_cpp.o needs to be linked statically, if needed.- HB

Darwin/MacOSX Support - December 16, 2003
=========================================

Important Usage Notes
=====================

GC_init() MUST be called before calling any other GC functions. This is necessary to properly register segments in dynamic libraries. This call is required even if your code does not use dynamic libraries as the dyld code handles registering all data segments.

When your use of the garbage collector is confined to dylibs and you cannot call GC_init() before your libraries’ static initializers have run and perhaps called GC_malloc(), create an initialization routine for each library to call GC_init():

```c
#include <gc/gc.h>
extern "C" void my_library_init() { GC_init(); }
```

Compile this code into a my_library_init.o, and link it into your dylib. When you link the dylib, pass the -init argument with _my_library_init (e.g. gcc -dynamiclib -o my_library.dylib a.o b.o c.o my_library_init.o -init _my_library_init). This causes my_library_init() to be called before any static initializers, and will initialize the garbage collector properly.

Note: It doesn't hurt to call GC_init() more than once, so it's best, if you have an application or set of libraries that all use the garbage collector, to create an initialization routine for each of them that calls GC_init(). Better safe than sorry.

The incremental collector is still a bit flaky on darwin. It seems to work reliably with workarounds for a few possible bugs in place however these workaround may not work correctly in all cases. There may also be additional problems that I have not found.

Thread-local GC allocation will not work with threads that are not created using the GC-provided override of pthread_create(). Threads created without the GC-provided pthread_create() do not have the
necessary data structures in the GC to store this data.

Implementation Information

Darwin/MacOSX support is nearly complete. Thread support is reliable on Darwin 6.x (MacOSX 10.2) and there have been reports of success on older Darwin versions (MacOSX 10.1). Shared library support had also been added and the gc can be run from a shared library. There is currently only support for Darwin/PPC although adding x86 support should be trivial.

Thread support is implemented in terms of mach thread_suspend and thread_resume calls. These provide a very clean interface to thread suspension. This implementation doesn't rely on pthread_kill so the code works on Darwin < 6.0 (MacOSX 10.1). All the code to stop and start the world is located in darwin_stop_world.c.

Since not all uses of the GC enable clients to override pthread_create() before threads have been created, the code for stopping the world has been rewritten to look for threads using Mach kernel calls. Each thread identified in this way is suspended and resumed as above. In addition, since Mach kernel threads do not contain pointers to their stacks, a stack-walking function has been written to find the stack limits. Given an initial stack pointer (for the current thread, a pointer to a stack-allocated local variable will do; for a non-active thread, we grab the value of register 1 (on PowerPC)), it will walk the PPC Mach-O-ABI compliant stack chain until it reaches the top of the stack. This appears to work correctly for GCC-compiled C, C++, Objective-C, and Objective-C++ code, as well as for Java programs that use JNI. If you run code that does not follow the stack layout or stack pointer conventions laid out in the PPC Mach-O ABI, then this will likely crash the garbage collector.

The original incremental collector support unfortunately no longer works on recent Darwin versions. It also relied on some undocumented kernel structures. Mach, however, does have a very clean interface to exception handing. The current implementation uses Mach's exception handling.

Much thanks goes to Andrew Stone, Dietmar Planitzer, Andrew Begel, Jeff Sturm, and Jesse Rosenstock for all their work on the Darwin/OS X port.

-Brian Alliet
brian@brianweb.net

Older Information (Most of this no longer applies to the current code)

==============================================
While the GC should work on MacOS X Server, MacOS X and Darwin, I only tested it on MacOS X Server.

I've added a PPC assembly version of GC_push_regs(), thus the setjmp() hack is no longer necessary. Incremental collection is supported via mprotect/signal.

The current solution isn't really optimal because the signal handler must decode the faulting PPC machine instruction in order to find the correct heap address. Further, it must poke around in the register state which the kernel saved away in some obscure register state structure before it calls the signal handler - needless to say the layout of this structure is no where documented.

Threads and dynamic libraries are not yet supported (adding dynamic library support via the low-level dyld API shouldn't be that hard).

The original MacOS X port was brought to you by Andrew Stone.

June, 1 2000

Dietmar Planitzer
dave.pl@ping.at

Note from Andrew Begel:

One more fix to enable gc.a to link successfully into a shared library for MacOS X. You have to add -fno-common to the CFLAGS in the Makefile. MacOSX disallows common symbols in anything that eventually finds its way into a shared library. (I don't completely understand why, but -fno-common seems to work and doesn't mess up the garbage collector's functionality).

Feb 26, 2003

Jeff Sturm and Jesse Rosenstock provided a patch that adds thread support. GC_MACOSX_THREADS should be defined in the build and in clients. Real dynamic library support is still missing, i.e. dynamic library data segments are still not scanned. Code that stores pointers to the garbage collected heap in statically allocated variables should not reside in a dynamic library. This still doesn't appear to be 100% reliable.

Mar 10, 2003

Brian Alliet contributed dynamic library support for MacOSX. It could also use more testing.

The Debian GNU Compiler Collection setup

=================================================

Please see the README.Debian in /usr/share/doc/gcc, contained in the gcc package for a description of the setup of the different compiler versions.
For general discussion about the Debian toolchain (GCC, glibc, binutils) please use the mailing list debian-toolchain@lists.debian.org; for GCC specific things, please use debian-gcc@lists.debian.org. When in doubt use the debian-toolchain ML.

Maintainers of these packages
-------------------------------
Matthias Klose <doko@debian.org>
Falk Hueffner <falk@debian.org>(alpha-linux)
Ludovic Brenta <ludovic@ludovic-brenta.org>(gnat)
Aurelien Jarno <aurel32@debian.org>(mips*-linux)

Former and/or inactive maintainers of these packages
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Ray Dassen <jdassen@debian.org>
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Joel Baker <fenton@debian.org>(nethsd-i386)
Randolph Chung <tausq@debian.org>(ia64-linux)
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Dan Jacobowitz <dan@debian.org>(powerpc-linux)
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Matt Taggart <taggart@carmen.fc.hp.com>(hppa-linux)
Gerhard Tonn <GerhardTonn@swol.de>(s390-linux)
Roman Zippel <zippel@linux-m68k.org>(m68k-linux)
Arthur Loiret <arthur.loiret@gmail.com>(gdc)

===============================================================================
Garbage Collector (parallel iversion) for ix86 DG/UX Release R4.20MU07

*READ* the file README.QUICK.

You need the GCC-3.0.3 rev (DG/UX) compiler to build this tree. This compiler has the new "dgux386" threads package implemented. It also supports the switch "-pthread" needed to link correctly the DG/UX's -lrte -lthread with -lgcc and the system's -lc. Finally we support parraleli-mark for the SMP DG/UX machines. To build the garbage collector do:

```
./configure --enable-parallel-mark
make
make gctest
```
Before you run "gctest" you need to set your LD_LIBRARY_PATH correctly so that "gctest" can find the shared library libgc. Alternatively you can do a configuration

./configure --enable-parallel-mark --disable-shared

to build only the static version of libgc.

To enable debugging messages please do:
1) Add the "--enable-full-debug" flag during configuration.
2) Edit the file linux-threads.c and uncomment the line:

/* #define DEBUG_THREADS 1 */ to --->

#define DEBUG_THREADS 1

Then give "make" as usual.

In a machine with 4 CPUs (my own machine) the option parallel mark (aka --enable-parallel-mark) makes a BIG difference.

Takis Psarogiannakopoulos
University of Cambridge
Centre for Mathematical Sciences
Department of Pure Mathematics
Wilberforce Road
Cambridge CB3 0WB, UK, <takis@XFree86.Org>
January 2002

Note (HB):
The integration of this patch is currently not complete.
The following patches against 6.1alpha3 where hard to move to alpha4, and are not integrated. There may also be minor problems with stylistic corrections made by me.

+++ ltconfig Mon Jan 28 20:44:00 2002
@@ -689,6 +689,11 @@
  pic_flag=-Kconform_pic
fi
::
+  dgux*)
+  pic_flag='-fPIC'
+  link_static='-Bstatic'
+  wl=''-Wl,'
+  ::
*)
  pic_flag='-fPIC'
  ;;
@@ -718,6 +723,12 @@
    # We can build DLLs from non-PIC.
    ;;
    + dgux*)
    +   pic_flag='-KPIC'
    +   link_static='-Bstatic'
    +   wl='\'-Wl,'
    +   ;;
    +   osf3* | osf4* | osf5*)
    # All OSF/1 code is PIC.
    wl='\'-Wl,'
@@ -1154,6 +1165,22 @@
    fi
    ;;
    + dgux*)
    +   ld_shlibs=yes
    +   # For both C/C++ omit the deplibs. This is because we relying on the fact
    +   # that compilation of executables will put them in correct order
    +   # in any case and sometimes are wrong when listed as deplibs (or missing some deplibs)
    +   # However when GNU ld and --whole-archive needs to be used we have the problem
    +   # that if the -fPIC *_s.a archive is linked through deplibs list we omitting crucial
    +   # .lo/.o files from the created shared lib. This I think is not the case here.
    +   archive_cmds='$CC -shared -h $soname -o $lib $libobjs $linkopts'
    +   thread_safe_flag_spec='-pthread'
    +   wlarc=
    +   hardcode_libdir_flag_spec='-L$libdir'
    +   hardcode_shlibpath_var=no
    +   ac_cv_archive_cmds_needs_lc=no
    +   ;;
    +   cygwin* | mingw*)
    # hardcode_libdir_flag_spec is actually meaningless, as there is
    # no search path for DLLs.
@@ -1497,7 +1524,7 @@
    ;;
    dgux*)
    -   archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs $linkopts'
    +   archive_cmds='$CC -shared -h $soname -o $lib $libobjs $linkopts'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_shlibpath_var=no
    ;;
dgux*)
- version_type=linux
+ version_type=dgux
need_lib_prefix=no
need_version=no
- library_names_spec='${libname}${release}.so$versuffix ${libname}${release}.so$major $libname.so'
- soname_spec='${libname}${release}.so$major'
+ library_names_spec='${libname}.so$versuffix'
+ soname_spec='${libname}.so$versuffix'
shlibpath_var=LD_LIBRARY_PATH
+ thread_safe_flag_spec='-pthread'
+ wlarc=
+ hardcode_libdir_flag_spec='-L$libdir'
+ hardcode_shlibpath_var=no
+ ac_cv_archive_cmds_needs_lc=no
;-

sysv4*MP*)

+++ ltmain.sh	Tue Jan 29 00:11:29 2002
@@ -1072,11 +1072,38 @@
esac
;-
+
+       -thread*)
+## DG/UX GCC 2.95.x, 3.x.x rev (DG/UX) links -lthread
+## with the switch -threads
+if test "$arg" = "-threads"; then
+ case "$host" in
+ i[3456]86-*-dgux*)
+  deplibs="$deplibs $arg"
+  continue
+  ;;
+  esac
+fi
+;;
+
+       -pthread*)
+## DG/UX GCC 2.95.x, 3.x.x rev (DG/UX) links -lthread
+## with the switch -pthread
+if test "$arg" = "-pthread"; then
+ case "$host" in
+ i[3456]86-*-dgux*)

```bash
+ deplibs="$deplibs $arg"
+ continue
+ ;;
+ esac
+ fi
+ ;;
+
-1*)
if test "$arg" = "-l"; then
case "$host" in
  -*.-cygwin* | *.-.mingw* | *.-.os2* | *.-.beos*)
temp_deplibs=
for deplib in $dependency_libs; do
case "$deplib" in
  *.-.cygwin* | *.-.mingw* | *.-.os2* | *.-.beos*)
    # These systems don't actually have c library (as such)
    continue
  ;;
  esac
esac
@@ -1248,6 +1275,12 @@
temp_deplibs=
for deplib in $dependency_libs; do
case "$deplib" in
  *.-.cygwin* | *.-.mingw* | *.-.os2* | *.-.beos*)
    # These systems don't actually have c library (as such)
    continue
  ;;
  esac
@@ -1709,6 +1742,13 @@
temp_deplibs="$temp_deplibs $deplib"
+ ;;
+ -pthread)
+ temp_deplibs="$temp_deplibs $deplib"
+ ;;
+ -R*) temp_xrpath=`$echo "X$deplib" | $Xsed -e 's/-R\//\//g'`
case "$deplib" in
  *."$temp_xrpath "*)
  ;;
  esac
@@ -1792,8 +1832,9 @@
dependency_libs="$deplibs"
```

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

[Original version supplied by Xiaokun Zhu <xiaokun@aero.gla.ac.uk>]
[This version came mostly from Gary Leavens.

Look first at Makefile.dj, and possibly change the definitions of RM and MV if you don't have rm and mv installed.
Then use Makefile.dj to compile the garbage collector.
For example, you can do:

make -f Makefile.dj test

All the tests should work fine.

The garbage collector looks at a number of environment variables which are then used to affect its operation. These are examined only on Un*x-like platforms and win32.
GC_INITIAL_HEAP_SIZE=<bytes> - Initial heap size in bytes. May speed up process start-up.

GC_MAXIMUM_HEAP_SIZE=<bytes> - Maximum collected heap size.

GC_LOOP_ON_ABORT - Causes the collector abort routine to enter a tight loop. This may make it easier to debug, such a process, especially for multithreaded platforms that don't produce usable core files, or if a core file would be too large. On some platforms, this also causes SIGSEGV to be caught and result in an infinite loop in a handler, allowing similar debugging techniques.

GC_PRINT_STATS - Turn on as much logging as is easily feasible without adding significant runtime overhead. Doesn't work if the collector is built with SMALL_CONFIG. Overridden by setting GC_quiet. On by default if the collector was built without -DSILENT.

GC_DUMP_REGULARLY - Generate a GC debugging dump GC_dump() on startup and during every collection. Very verbose. Useful if you have a bug to report, but please include only the last complete dump.

GC_BACKTRACES=<n> - Generate n random backtraces (for heap profiling) after each GC. Collector must have been built with KEEP_BACK_PTRS. This won't generate useful output unless most objects in the heap were allocated through debug allocators. This is intended to be only a statistical sample; individual traces may be erroneous due to concurrent heap mutation.

GC_PRINT_ADDRESS_MAP - Linux only. Dump /proc/self/maps, i.e. various address maps for the process, to stderr on every GC. Useful for mapping root addresses to source for deciphering leak reports.

GC_NPROCS=<n> - Linux w/threads only. Explicitly sets the number of processors that the GC should expect to use. Note that setting this to 1 when multiple processors are available will preserve correctness, but may lead to really horrible performance, since the lock implementation will immediately yield without first spinning.

GC_MARKERS=<n> - Linux w/threads and parallel marker only. Set the number of marker threads. This is normally set to the number of processors. It is safer to adjust GC_MARKERS than GC_NPROCS, since GC_MARKERS has no impact on the lock implementation.
GC_NO_BLACKLIST_WARNING - Prevents the collector from issuing warnings about allocations of very large blocks. Deprecated. Use GC_LARGE_ALLOC_WARN_INTERVAL instead.

GC_LARGE_ALLOC_WARN_INTERVAL=<n> - Print every nth warning about very large block allocations, starting with the nth one. Small values of n are generally benign, in that a bounded number of such warnings generally indicate at most a bounded leak. For best results it should be set at 1 during testing. Default is 5. Very large numbers effectively disable the warning.

GC_IGNORE_GCJ_INFO - Ignore the type descriptors implicitly supplied by GC_gcj_malloc and friends. This is useful for debugging descriptor generation problems, and possibly for temporarily working around such problems. It forces a fully conservative scan of all heap objects except those known to be pointerfree, and may thus have other adverse effects.

GC_PRINT_BACK_HEIGHT - Print max length of chain through unreachable objects ending in a reachable one. If this number remains bounded, then the program is "GC robust". This ensures that a fixed number of misidentified pointers can only result in a bounded space leak. This currently only works if debugging allocation is used throughout. It increases GC space and time requirements appreciably. This feature is still somewhat experimental, and requires that the collector have been built with MAKE_BACK_GRAPH defined. For details, see Boehm, "Bounding Space Usage of Conservative Garbage Collectors", POPL 2001, or http://lib.hpl.hp.com/techpubs/2001/HPL-2001-251.html.

GC_RETRY_SIGNALS, GC_NO_RETRY_SIGNALS - Try to compensate for lost thread suspend signals in linux_threads.c. On by default for GC_OSF1_THREADS, off otherwise. Note that this does not work around a possible loss of thread restart signals. This seems to be necessary for some versions of Tru64. Since we've previously seen similar issues on some other operating systems, it was turned into a runtime flag to enable last-minute work-arounds.

GC_IGNORE_FB[=<n>] - (Win32 only.) Try to avoid treating a mapped frame buffer as part of the root set. Certain (higher end?) graphics cards seems to result in the graphics memory mapped into the user address space as writable memory.
Unfortunately, there seems to be no systematic way to identify such memory. Setting the environment variable to n causes the collector to ignore mappings longer than n MB. The default value of n is currently 15. (This should cover a 16 MB graphics card, since the mapping appears to be slightly shorter than all of graphics memory. It will fail if a dll writes pointers to collectable objects into a data segment whose length is >= 15MB. Empirically that's rare, but certainly possible.) WARNING: Security sensitive applications should probably disable this feature by setting GC_disallow_ignore_fb, or by building with -DNO_GETENV, since small values could force collection of reachable objects, which is conceivably (difficult to exploit) security hole. GC_IGNORE_FB values less than 3 MB are never honored, eliminating this risk for most, but not all, applications. This feature is likely to disappear if/when we find a less disgusting "solution".

IN VERSION 6.4 AND LATER, THIS SHOULD BE UNNECESSARY.

The following turn on runtime flags that are also program settable. Checked only during initialization. We expect that they will usually be set through other means, but this may help with debugging and testing:

**GC_ENABLE_INCREMENTAL** - Turn on incremental collection at startup. Note that, depending on platform and collector configuration, this may involve write protecting pieces of the heap to track modifications. These pieces may include pointerfree objects or not. Although this is intended to be transparent, it may cause unintended system call failures. Use with caution.

**GC_PAUSE_TIME_TARGET** - Set the desired garbage collector pause time in msecs. This only has an effect if incremental collection is enabled. If a collection requires appreciably more time than this, the client will be restarted, and the collector will need to do additional work to compensate. The special value "999999" indicates that pause time is unlimited, and the incremental collector will behave completely like a simple generational collector. If the collector is configured for parallel marking, and run on a multiprocessor, incremental collection should only be used with unlimited pause time.

**GC_FIND_LEAK** - Turns on GC_find_leak and thus leak detection. Forces a collection at program termination to detect leaks that would otherwise occur after the last GC.

**GC_ALL_INTERIOR_POINTERS** - Turns on GC_all_interior_pointers and thus interior
pointer recognition.

GC_DONT_GC - Turns off garbage collection. Use cautiously.

GC on EWS4800
-------------

1. About EWS4800
EWS4800 is 32bit/64bit workstation.

Vender: NEC Corporation
OS: UX/4800 R9.* - R13.* (SystemV R4.2)
CPU: R4000, R4400, R10000 (MIPS)

2. Compiler

32bit:
Use ANSI C compiler.
CC = /usr/abiccs/bin/cc

64bit:
Use 64bit ANSI C compiler.
CC = /usr/ccs64/bin/cc
AR = /usr/ccs64/bin/ar

3. ELF file format
*** Caution: The following information is empirical. ***

32bit:
ELF file has a unique format. (See a.out(4) and end(3C).)

&_start
  :  text segment
&etext
DATASTART
  :  data segment (initialized)
&edata
DATASTART2
  :  data segment (uninitialized)
&end

Here, DATASTART and DATASTART2 are macros of GC, and are defined as
the following equations. (See include/private/gcconfig.h.)
The algorithm for DATASTART is similar with the function
GC_SysVGetDataStart() in os_dep.c.

DATASTART = ((&etext + 0x3fff) & ~0x3fff) + (&etext & 0xffff)

Dynamically linked:
DATASTART2 = (&_gp + 0x8000 + 0x3ffff) & ~0x3ffff

Statically linked:
DATASTART2 = &edata

GC has to check addresses both between DATASTART and &edata, and between DATASTART2 and &end. If a program accesses between &etext and DATASTART, or between &edata and DATASTART2, the segmentation error occurs and the program stops.

If a program is statically linked, there is not a gap between &edata and DATASTART2. The global symbol &_DYNAMIC_LINKING is used for the detection.

64bit:
ELF file has a simple format. (See end(3C).)

_text
 : text segment
_etext
_fdata = DATASTART
 : data segment (initialized)
_edata
_fbss
 : data segment (uninitialized)
_end = DATAEND

--
Hironori SAKAMOTO <hsaka@mth.biglobe.ne.jp>

When using the new "configure; make" build process, please run configure with the --disable-shared option. "Make check" does not yet pass with dynamic libraries. The reasons for that are not yet understood. (HB, paraphrasing message from Hironori SAKAMOTO.)

This directory contains examples of the use of zlib.

fitblk.c
compress just enough input to nearly fill a requested output size
- zlib isn't designed to do this, but fitblk does it anyway

gun.c
uncompress a gzip file
- illustrates the use of inflateBack() for high speed file-to-file decompression using call-back functions
- is approximately twice as fast as gzip -d
- also provides Unix uncompress functionality, again twice as fast
gzappend.c
append to a gzip file
- illustrates the use of the Z_BLOCK flush parameter for inflate()
- illustrates the use of deflatePrime() to start at any bit

gzjoin.c
join gzip files without recalculating the crc or recompressing
- illustrates the use of the Z_BLOCK flush parameter for inflate()
- illustrates the use of crc32_combine()

gzlog.c
gzlog.h
efficiently maintain a message log file in gzip format
- illustrates use of raw deflate and Z_SYNC_FLUSH
- illustrates use of gzip header extra field

zlib_how.html
painfully comprehensive description of zpipe.c (see below)
- describes in excruciating detail the use of deflate() and inflate()

zpipe.c
reads and writes zlib streams from stdin to stdout
- illustrates the proper use of deflate() and inflate()
- deeply commented in zlib_how.html (see above)

zran.c
index a zlib or gzip stream and randomly access it
- illustrates the use of Z_BLOCK, deflatePrime(), and inflateSetDictionary() to provide random access

This file contains a list of notes for those writing testcases and those writing expect scripts. At present, they’re in random order.

Verbosity Levels

- each level adds verbosity so level 2 prints all level 1 and level 2 stuff.

1) Print a one-liner indicating the testcase being run (and maybe special compiler options).

2) Print compiler and program invocation including arguments and their output.
   Proc's gcc_load and gcc_start handle the latter two.

3) Print detailed testcase analysis like "Looking for pattern ...", etc.

4) Maximum verbosity. Print anything else of interest.

send_log conventions
Various messages are stored in gcc.log by the testing framework and we try to augment them with some of our own. The format of the framework messages are:

PASS: blah blah ...
FAIL: blah blah ...

so we use

XXXX: blah blah ...

Current messages are:

EXEC: program being executed (so compiler path and args are recorded)
STAT: intermediate pass/fail statistics

Test scripts must ignore the compiler messages "path prefix never used" and "linker input file unused". Don't let their appearance cause a testcase to fail. See lib/dg.exp for the exact regsub to use.

If you're unclear about which directory a testcase should be installed in, ask gcc-local.

Have the text of a fail message be the same as that for pass.
IE: have

    if ...success...
        pass "pr 1234"
    else
        fail "pr 1234"

not

    if ...success...
        pass "pr 1234 passed"
    else
        fail "pr 1234 failed"

This lets test-tool (which drives the nightly tests) do a better job at tracking which tests have digressed or been fixed.

DO NOT PUT NON-PORTABLE TESTCASES IN gcc.c-torture.

ANY TARGET SPECIFIC TESTCASE MUST HAVE APPROPRIATE CODE TO PREVENT IT FROM CAUSING A 'FAILURE' ON UNSUPPORTED PLATFORMS.
The "torture" tests are meant to be generic tests that can run on any target. So you have to be careful about endianness, assumptions about sizes of datatypes, etc etc.

For tests that merely need to compile, put them in the "compile" directory.

For tests which should give an error, put them in the "noncompile" directory and update noncompile.exp appropriately (see examples in noncompile.exp).

For IEEE FP specific tests, put them in execute/ieee.

For execution tests, put them in execute.

If a test does not fit into the torture framework, use the dg framework.


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If you want to develop Ada programs and libraries on Debian, please read the Debian Policy for Ada:

http://www.ada-france.org/debian/debian-ada-policy.html

The default Ada compiler is and always will be the package `gnat'.

Debian contains many programs and libraries compiled with it, which are all ABI-compatible.

Starting with gnat-4.2, Debian provides both zero-cost and setjump/longjump versions of the run-time library. The zero-cost
exception handling mechanism is the default as it provides the best
performance. The setjump/longjump exception handling mechanism is new
and only provided as a static library. It is necessary to use this
exception handling mechanism in distributed (annex E) programs. If
you wish to use the new sjlj library:

1) call gnatmake with --RTS=sjlj
2) call gnatbind with -static

Do NOT link your programs with libgnat-4.2.so, because it uses the ZCX
mechanism.

Dynamic loading support requires that executables be linked with -ldld.
The alternative is to build the collector without defining DYNAMIC_LOADING
in gcconfig.h and ensuring that all garbage collectable objects are
accessible without considering statically allocated variables in dynamic libraries.
The collector should compile with either plain cc or cc -Ae. Cc -Aa fails to define _HPUX_SOURCE and thus will not configure the collector correctly.

Incremental collection support was recently added, and should now work.

In spite of past claims, pthread support under HP/UX 11 should now work. Define GC_HPUX_THREADS for the build. Incremental collection still does not work in combination with it.

The stack finding code can be confused by putenv calls before collector initialization. Call GC_malloc or GC_init before any putenv calls.

<!DOCTYPE html>
<html>
<head>
<title>Five-in-a-row v 0.0</title>
</head>
<body LANG="en-US">
<h1><i>Five-in-a-row</i> 0.0 supplementary documentation</h1>
<h3>Introduction and rules</h3>
<p><i>Five-in-a-row</i> is a two player strategy game. The players are connected via network using CORBA-based RMI/IIOP protocol and make their moves with the help of the Swing-based interface. While playing, the users can also chat.
</p>
<p>The system consists of the single server and any number of interconnected players. The person, willing to play, starts the client and connects the server. The server redirects call to the partner that has previously connected the same server, also willing to play.
</p>
<p>The game desk is a field where it is possible to set O's and X'es, one per move. The goal is to get five O's in a row while preventing your partner from getting five X's in a row. Vertical, horizontal and diagonal rows are allowed. The system detects the loss-victory situation on the desk, but currently does not serve as a playing partner, requiring at least two human players for this game.
</p>
<p>Both players can at any time reset the game (restarting it with the same player) or leave the game (disconnecting). The disconnected player can contact the game manager again, requesting to find another partner.
Simple as it is, the application has some features of the typical role
playing game that frequently just has more states, actions,
possible moves and also provides far richer graphics environment. The
game manager serves as a World-Wide-Pub where you can always find a
partner to play.

The players can made both unsynchronized (chatting, game reset and
leaving) and synchronized (moves) actions. The game state changes
while playing, and the set of the available actions depends on the
current state. Finally, the mouse and canvas are involved. However
using RMI/IIOP machinery allowed to implement all this functionality
with just 13 classes (plus 4 generated), all of them being rather
simple.

This example refers to the standard classes only and must be buildable
from your IDE as long as it has any java 1.4 compiler.

The used IIOP protocol must ensure interoperability, allowing players
to use different java virtual machines and operating systems.
The processors may have the opposite byte order.

The game manager server executable class is
<code>gnu.classpath.examples.CORBA.swing.x5.X5Server</code>. After start,
it will print to console the Internet address that must be entered to
the client to reach the manager.

The client executable class it
<code>gnu.classpath.examples.CORBA.swing.x5.Demo</code>.

The game should run with GNU Classpath
0.19 and Sun Microsystems java 1.5.0_04. Due later fixed bugs it will
not run with the older versions of these two implementations.

The game manager HTTP server uses port
1500. Hence all firewalls between the server and the player must be
configured to allow HTTP on 1500. The ports, used by the RMI/IIOP are
not persistent. GNU Classpath is configured to take ports 1501, 1502
and 1503 (the firewalls must allow to use them for RMI/IIOP). The
CORBA implementation other than Classpath may use different port
values. Unfortunately, there is no standard method to configure the
used port range in a vendor-independent way.
The game server

The game manager is first reachable via http:// protocol (for instance http://123.456.7.89:1500). The simple server at this port always serves much longer string, representing the CORBA stringified object reference (IOR). The client uses this reference to find and access the remote game server object.

If the server player queue is empty, it simply queues this player. If the queue is not empty, the server introduces the arrived player and queued player to each other as leaves them alone. When playing, the two clients communicate with each other directly, so the server is just a meeting point; where the players can find each other. The game server is a console-only application.

The initial server http:// address must be transferred to players by some other means of communication (web chat, E-mail, link in a web site and so on). The server writes this address to the specified file, and the client can also take the default value from the same file. This is convenient when all applications run on a single machine, but also may be used to transfer the address via shared filesystem.

The game client

The clients are Swing-based GUI applications, capable for remote communication with each other and with the game manager. They have a set of predefined states and switch between these states in accordance to the preprogrammed logic. The client states are defined in the State interface. They are displayed in the bottom left corner of the window and are summarized in the following table:

```
<table BORDER=1 CELLPADDING=4 CELLSPPACING=0 WIDTH="100%">
<thead>
<tr BGCOLOR="#ccccff">
<th BGCOLOR="#e6e6ff">Our state</th>
<th BGCOLOR="#e6e6ff">Partner state</th>
<th BGCOLOR="#e6e6ff">Possible actions</th>
</tr>
</thead>
```
<table>
<thead>
<tr>
<th>Comment</th>
<th>State Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partner not accessible</td>
<td>Initial state.</td>
</tr>
<tr>
<td>Leave</td>
<td>Queued by the game manager.</td>
</tr>
<tr>
<td>Make move, reset game, leave, chat.</td>
<td>The person who waited for another player to come starts the game first.</td>
</tr>
<tr>
<td>I wait for your move</td>
<td>I think</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------</td>
</tr>
<tr>
<td>I have lost</td>
<td>I have won</td>
</tr>
<tr>
<td>I have won</td>
<td>I have lost</td>
</tr>
</tbody>
</table>
As it is seen, being in one of the states, the client expects to be the partner client in a certain defined state, and both clients change their states in a synchronized manner. Each state has its own set of the available actions and each action either preserves the current state (chat, reset) or changes it following the rules. For this simple example, the state change rules are obvious.

<h3>The used RMI-IIOP architecture</h3>

Both player and game manager servants are derived from the <i>org.omg.PortableServer.Servant</i> and, being servants, are simply connected to the <i>POA</i> with <i>POA.servant_to_reference</i>. The first remote object (game manager) is found using the stringified object reference. No naming service is involved.

Where required, the CORBA objects are narrowed into required player and game manager interfaces using method <i>PortableRemoteObject.narrow(org.omg.CORBA.Object object, Class interface_class)</i>, passing the actual interface of the object as the second parameter. After narrowing, the remote side obtains possibility to invoke remote methods, defined in the interface of this object. After the first remote object is found, other objects can be simply passed as the method parameters. For instance, the game manager introduces another player by passing its reference as a parameter to the method <i>Player.start_game</i>. 
### Class and interface summary

#### Executables classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo</td>
<td>The main executable class of the game client.</td>
</tr>
<tr>
<td>X5Server</td>
<td>The main executable class of the game manager server.</td>
</tr>
</tbody>
</table>

#### Interface Summary

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GameManager</td>
<td>The game manager interface.</td>
</tr>
<tr>
<td>Player</td>
<td></td>
</tr>
</tbody>
</table>
Defines remote methods that are invoked by another player or by
the challenge server.
</td>
</tr>
<tr>
<td>
State
</td>
</tr>

Defines the states in that the player can be.
</td>
</tr>
</table>

Definitions used in Ultra Services Platform Version 6.10

<table>
<thead>
<tr>
<th>Class Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>_GameManager_Stub</td>
</tr>
<tr>
<td>Normally generated with rmic compiler, this class represents the GameManager Stub on the client side.</td>
</tr>
<tr>
<td>_GameManagerImpl_Tie</td>
</tr>
<tr>
<td>Normally generated with rmic compiler, this class represents the GameManager Tie on the client side.</td>
</tr>
<tr>
<td>_Player_Stub</td>
</tr>
<tr>
<td>Generate with rmic, command line rmic -iiop -poa -keep gnu.classpath.examples.CORBA.swing.x5.PlayerImpl (the compiled package must be present in the current folder).</td>
</tr>
<tr>
<td>Class Name</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>PlayerImpl_Tie</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ChatConstants</td>
</tr>
<tr>
<td>ClientFrame</td>
</tr>
<tr>
<td>GameManagerImpl</td>
</tr>
<tr>
<td>IorReader</td>
</tr>
<tr>
<td>OrbStarter</td>
</tr>
</tbody>
</table>
<tr>
<td>
Starts the ORBs, involved into this application.
</td>
</tr>
<tr>
<td>
PlayerImpl
</td>
<td>
The implementation of the PlayerCommunicator, providing the
local functionality.
</td>
</tr>
<tr>
<td>
PlayingDesk
</td>
<td>
Manages actions, related to the game rules and also does all
painting.
</td>
</tr>

<h3>See also</h3>
<p>
<a HREF="http://www.javascripter.net/games/xo/xo.htm">http://www.javascripter.net/games/xo/xo.htm</a>
</p>
<p>
<a HREF="http://www.leepoint.net/notes-java/45examples/55games/five/five.html">http://www.leepoint.net/notes-java/45examples/55games/five/five.html</a>
</p>
<p>
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the file COPYING. If not, write to the Free Software Foundation,
First version written by <a href="http://savannah.gnu.org/users/audriusa">Audrius Me&scaron;kauskas</a>

This file describes the jaxp (xml processing) implementation of GNU Classpath. GNU Classpath includes interfaces and implementations for basic XML processing in the java programming language, some general purpose SAX2 utilities, and transformation.

These classes used to be maintained as part of an external project GNU JAXP but are now integrated with the rest of the core class library provided by GNU Classpath.

PACKAGES

. javax.xml.* ... JAXP 1.3 interfaces

. gnu.xml.elfred2.* ... SAX2 parser + validator
. gnu.xml.dom.* ... DOM Level 3 Core, Traversal, XPath implementation
. gnu.xml.dom.ls.* ... DOM Level 3 Load & Save implementation
. gnu.xml.xpath.* ... JAXP XPath implementation
. gnu.xml.transform.* ... JAXP XSL transformer implementation
. gnu.xml.pipeline.* ... SAX2 event pipeline support
. gnu.xml.stream.* ... StAX pull parser and SAX-over-StAX driver
. gnu.xml.util.* ... various XML utility classes
In the external directory you can find the following packages. They are not maintained as part of GNU Classpath, but are used by the classes in the above packages.

- org.xml.sax.* ... SAX2 interfaces
- org.w3c.dom.* ... DOM Level 3 interfaces
- org.relaxng.datatype.* ... RELAX NG pluggable datatypes API

**CONFORMANCE**

The primary test resources are at http://xmlconf.sourceforge.net and include:

**SAX2/XML conformance tests**
That the "xml.testing.Driver" addresses the core XML 1.0 specification requirements, which closely correspond to the functionality SAX1 provides. The driver uses SAX2 APIs to test that functionality. It is used with a bugfixed version of the NIST/OASIS XML conformance test cases.

The AEElfred2 parser is highly conformant, though it still takes a few implementation shortcuts. See its package documentation for information about known XML conformance issues in AEElfred2.

The primary issue is using Unicode character tables, rather than those in the XML specification, for determining what names are valid. Most applications won't notice the difference, and this solution is smaller and faster than the alternative.

For validation, a secondary issue is that issues relating to entity modularity are not validated; they can't all be cleanly layered. For example, validity constraints related to standalone declarations and PE nesting are not checked.

The current implementation has also been tested against Elliott Rusty Harold's SAXTest test suite (http://www.cafeconleche.org/SAXTest) and achieves approximately 93% conformance to the SAX specification according to these tests, higher than any other current Java parser.

**SAX2**
SAX2 API conformance currently has a minimal JUNIT (0.2) test suite, which can be accessed at the xmlconf site listed above. It does not cover namespaces or LexicalHandler and Declhandler extensions.
anywhere as exhaustively as the SAX1 level functionality is tested by the "xml.testing.Driver". However:

- Applying the DOM unit tests to this implementation gives the LexicalHandler (comments, and boundaries of DTDs, CDATA sections, and general entities) a workout, and does the same for DeclHandler entity declarations.

- The pipeline package's layered validator demands that element and attribute declarations are reported correctly.

By those metrics, SAX2 conformance for AEIfred2 is also strong.

DOM Level 3 Core Tests
The DOM implementation has been tested against the W3C DOM Level 3 Core conformance test suite (http://www.w3.org/DOM/Test/). Current conformance according to these tests is 72.3%. Many of the test failures are due to the fact that GNU JAXP does not currently provide any W3C XML Schema support.

XSLT transformation
The transformer and XPath implementation have been tested against the OASIS XSLT and XPath TC test suite. Conformance against the Xalan tests is currently 77%.

libxmlj
========================================================================
libxmlj is an effort to create a 100% JAXP-compatible Java wrapper for libxml2 and libxslt. JAXP is the Java API for XML processing, libxml2 is the XML C library for Gnome, and libxslt is the XSLT C library for Gnome.

libxmlj currently supports most of the DOM Level 3 Core, Traversal, and XPath APIs, SAX2, and XSLT transformations. There is no W3C XML Schema support yet.

libxmlj can parse and transform XML documents extremely quickly in comparison to Java-based JAXP implementations. DOM manipulations, however, involve JNI overhead, so the speed of DOM tree construction and traversal can be slower than the Java implementation.

libxmlj is highly experimental, doesn't always conform to the DOM specification correctly, and may leak memory. Production use is not advised.

The implementation can be found in gnu/xml/libxmlj and native/jni/xmlj. See the INSTALL file for the required versions of libxml2 and libxslt.
configure --enable-xmlj will build it.

Usage

To enable the various GNU JAXP factories, set the following system properties
(command-line version shown, but they can equally be set programmatically):

AEIfred2:
-Djavax.xml.parsers.SAXParserFactory=gnu.xml.aelfred2.JAXPFactory

GNU DOM (using DOM Level 3 Load & Save):

GNU DOM (using AEIfred-only pipeline classes):
-Djavax.xml.parsers.DocumentBuilderFactory=gnu.xml.dom.JAXPFactory

GNU XSL transformer:
-Djavax.xml.transform.TransformerFactory=gnu.xml.transform.TransformerFactoryImpl

GNU StAX:
-Djavax.xml.stream.XMLEventFactory=gnu.xml.stream.XMLEventFactoryImpl
-Djavax.xml.stream.XMLInputFactory=gnu.xml.stream.XMLInputFactoryImpl
-Djavax.xml.stream.XMLOutputFactory=gnu.xml.stream.XMLOutputFactoryImpl

GNU SAX-over-StAX:
-Djavax.xml.parsers.SAXParserFactory=gnu.xml.stream.SAXParserFactory

libxmlj SAX:
-Djavax.xml.parsers.SAXParserFactory=gnu.xml.libxmlj.sax.GnomeSAXParserFactory

libxmlj DOM:

libxmlj XSL transformer:
-Djavax.xml.transform.TransformerFactory=gnu.xml.libxmlj.transform.GnomeTransformerFactory

When using libxmlj, the libxmlj shared library must be available.
In general it is picked up by the runtime using GNU Classpath. If not you
might want to try adding the directory where libxmlj.so is installed
(by default ${prefix}/lib/classpath/) with ldconfig or specifying in the
LD_LIBRARY_PATH environment variable. Additionally, you may need to specify
the location of your shared libraries to the runtime environment using the
java.library.path system property.

Missing (libxmlj) Features

____________________________________________________________________
See BUGS in native/jni/xmlj for known bugs in the libxmlj native bindings.

This implementation should be thread-safe, but currently all transformation requests are queued via Java synchronization, which means that it effectively performs single-threaded. Long story short, both libxml2 and libxslt are not fully reentrant.

Update: it may be possible to make libxmlj thread-safe nonetheless using thread context variables.

Update: thread context variables have been introduced. This is very untested though, libxmlj therefore still has the single thread bottleneck.

Validation

====================================================================

Pluggable datatypes

----------------------------------

 Validators should use the RELAX NG pluggable datatypes API to retrieve datatype (XML Schema simple type) implementations in a schema-neutral fashion. The following code demonstrates looking up a W3C XML Schema nonNegativeInteger datatype:

    DatatypeLibrary xsd = DatatypeLibraryLoader .createDatatypeLibrary(XMLConstants.W3C_XML_SCHEMA_NS_URI); Datatype nonNegativeInteger = xsd.createDatatype("nonNegativeInteger");

It is also possible to create new types by derivation. For instance, to create a datatype that will match a US ZIP code:

    DatatypeBuilder b = xsd.createDatatypeBuilder("string"); b.addParameter("pattern", "(^[0-9]{5}$)|(^[0-9]{5}-[0-9]{4}$)"); Datatype zipCode = b.createDatatype();

A datatype library implementation for XML Schema is provided; other library implementations may be added.

The libstdc++ baseline file is a list of symbols exported by the libstdc++ library.

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See README.alpha for Linux on DEC AXP info.

This file applies mostly to Linux/Intel IA32. Ports to Linux on an M68K, IA64, SPARC, MIPS, Alpha and PowerPC are also integrated. They should behave similarly, except that the PowerPC port lacks incremental GC support, and it is unknown to what extent the Linux threads code is functional.

See below for M68K specific notes.

Incremental GC is generally supported.

Dynamic libraries are supported on an ELF system. A static executable should be linked with the gcc option "-Wl,-defsym,_DYNAMIC=0".

The collector appears to work reliably with Linux threads, but beware of older versions of glibc and gdb.

The garbage collector uses SIGPWR and SIGXCPU if it is used with Linux threads. These should not be touched by the client program.

To use threads, you need to abide by the following requirements:

1) You need to use LinuxThreads or NPTL (which are included in libc6).

The collector relies on some implementation details of the LinuxThreads package. This code may not work on other
2) You must compile the collector with -DG/Linux_THREADS and -D_REENTRANT specified in the Makefile.

3a) Every file that makes thread calls should define GC_LINUX_THREADS and _REENTRANT and then include gc.h. Gc.h redefines some of the pthread primitives as macros which also provide the collector with information it requires.

3b) A new alternative to (3a) is to build the collector and compile GC clients with -DG/Linux_LD_WRAP, and to link the final program with

(for ld) --wrap --wrap dlopen --wrap pthread_create \ 
  --wrap pthread_join --wrap pthread_detach \ 
  --wrap pthread_sigmask --wrap sleep

(for gcc) -Wl,--wrap -Wl,read -Wl,--wrap -Wl,dlopen -Wl,--wrap \ 
  -Wl,pthread_create -Wl,--wrap -Wl,pthread_join -Wl,--wrap \ 
  -Wl,pthread_detach -Wl,--wrap -Wl,pthread_sigmask \ 
  -Wl,--wrap -Wl,sleep

In any case, _REENTRANT should be defined during compilation.

4) Dlopen() disables collection during its execution. (It can't run concurrently with the collector, since the collector looks at its data structures. It can't acquire the allocator lock, since arbitrary user startup code may run as part of dlopen().) Under unusual conditions, this may cause unexpected heap growth.

5) The combination of GC_LINUX_THREADS, REDIRECT_MALLOC, and incremental collection fails in seemingly random places. This hasn't been tracked down yet, but is perhaps not completely astonishing. The thread package uses malloc, and thus can presumably get SIGSEGVs while inside the package. There is no real guarantee that signals are handled properly at that point.

6) Thread local storage may not be viewed as part of the root set by the collector. This probably depends on the linuxthreads version. For the time being, any collectable memory referenced by thread local storage should also be referenced from elsewhere, or be allocated as uncollectable. (This is really a bug that should be fixed somehow.)

M68K LINUX:
(From Richard Zidlicky)
The bad news is that it can crash every linux-m68k kernel on a 68040,
so an additional test is needed somewhere on startup. I have meanwhile patches to correct the problem in 68040 buserror handler but it is not yet in any standard kernel.

Here is a simple test program to detect whether the kernel has the problem. It could be run as a separate check in configure or tested upon startup. If it fails (return !0) than mprotect can't be used on that system.

/*
* test for bug that may crash 68040 based Linux
*/

#include <sys/mman.h>
#include <signal.h>
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>

char *membase;
int pagesize=4096;
int pageshift=12;
int x_taken=0;

int sighandler(int sig)
{
    mprotect(membase,pagesize,PROT_READ|PROT_WRITE);
x_taken=1;
}

main()
{
    long l;

    signal(SIGSEGV,sighandler);
l=(long)mmap(NULL,pagesize,PROT_READ,MAP_PRIVATE | MAP_ANON,-1,0);
    if (l==-1)
        {
    perror("mmap/malloc");
    abort();
        }
    membase=(char*)l;
    *(long*)(membase+sizeof(long))=123456789;
    if (*((long*)(membase+sizeof(long)))!=123456789 )
        {
    fprintf(stderr,"writeback failed \n");
    exit(1);
}
if (!x_taken)
{
    fprintf(stderr,"exception not taken \n");
    exit(1);
}
fprintf(stderr,"vmtest Ok\n");
exit(0);

Patrick Beard's Notes for building GC v4.12 with CodeWarrior Pro 2:
----------------------------------------------------------------------------
The current build environment for the collector is CodeWarrior Pro 2. Projects for CodeWarrior Pro 2 (and for quite a few older versions) are distributed in the file Mac_projects.sit.hqx. The project file :Mac_projects:gc.prj builds static library versions of the collector. :Mac_projects:gctest.prj builds the GC test suite.

Configuring the collector is still done by editing the files :Mac_files:MacOS_config.h and :Mac_files:MacOS_Test_config.h.

Lars Farm's suggestions on building the collector:
----------------------------------------------------------------------------
Garbage Collection on MacOS - a manual 'MakeFile'
----------------------------------------------------------------------------
Project files and IDE's are great on the Macintosh, but they do have problems when used as distribution media. This note tries to provide porting instructions in pure TEXT form to avoid those problems. A manual 'makefile' if you like.

GC version:     4.12a2
Codewarrior:    CWPro1
date:           18 July 1997

The notes may or may not apply to earlier or later versions of the GC/CWPro. Actually, they do apply to earlier versions of both except that until recently a project could only build one target so each target was a separate project. The notes will most likely apply to future versions too. Possibly with minor tweaks.

This is just to record my experiences. These notes do not mean I now provide a supported port of the GC to MacOS. It works for me. If it works for you, great. If it doesn't, sorry, try again...:-) Still, if you find errors, please let me know.

mailto:    lars.farm@ite.mh.se
Porting to MacOS is a bit more complex than it first seems. Which MacOS? 68K/PowerPC? Which compiler? Each supports both 68K and PowerPC and offer a large number of (unique to each environment) compiler settings. Each combination of compiler/68K/PPC/settings require a unique combination of standard libraries. And the IDE's does not select them for you. They don't even check that the library is built with compatible setting and this is the major source of problems when porting the GC (and otherwise too).

You will have to make choices when you configure the GC. I've made some choices here, but there are other combinations of settings and #defines that work too.

As for target settings the major obstacles may be:
- 68K Processor: check "4-byte Ints".
- PPC Processor: uncheck "Store Static Data in TOC".

What you need to do:
====================
1) Build the GC as a library
2) Test that the library works with 'test.c'.
3) Test that the C++ interface 'gc_cpp.cc/h' works with 'test_cpp.cc'.

1) The Libraries:
=================
I made one project with four targets (68K/PPC tempmem or appheap). One target will suffice if you're able to decide which one you want. I wasn't...

Codewarrior allows a large number of compiler/linker settings. I used these:

Settings shared by all targets:
-------------------------------
- Access Paths:
  - User Paths: the GC folder
  - System Paths: {Compiler}:Metrowerks Standard Library:
    {Compiler}:MacOS Support:Headers:
    {Compiler}:MacOS Support:MacHeaders:
- C/C++ language:
  - inlining: normal
  - direct to SOM: off
  - enable/check: exceptions, RTTI, bool (and if you like pool strings)
PowerPC target settings
------------------------
- Target Settings:
  - name of target
  - MacOS PPC Linker
- PPC Target
  - name of library
- C/C++ language
  - prefix file as described below
- PPC Processor
  - Struct Alignment: PowerPC
  - uncheck "Store Static Data in TOC" -- important!
    I don't think the others matter, I use full optimization and its ok
- PPC Linker
  - Factory Settings (SYM file with full paths, faster linking, dead-strip
    static init, Main: __start)

68K target settings
-------------------
- Target Settings:
  - name of target
  - MacOS 68K Linker
- 68K Target
  - name of library
  - A5 relative data
- C/C++ language
  - prefix file as described below
- 68K Processor
  - Code model: smart
  - Struct alignment: 68K
  - FP: SANE
  - enable 4-Byte Ints -- important!
    I don't think the others matter. I selected...
  - enable: 68020
  - enable: global register allocation
- IR Optimizer
  - enable: Optimize Space, Optimize Speed
    I suppose the others would work too, but haven't tried...
- 68K Linker
  - Factory Settings (New Style MacsBug,SYM file with full paths,
    A6 Frames, fast link, Merge compiler glue into segment 1,
    dead-strip static init)

Prefix Files to configure the GC sources
----------------------------------------
The Codewarrior equivalent of commandline compilers -DNAME=X is to use
prefix-files. A TEXT file that is automatically #included before the first byte
of every source file. I used these:

```c
---- ( cut here ) ----  gc_prefix_tempmem.h     -- 68K and PPC -----
#include "gc_prefix_common.h"
#undef USE_TEMPORARY_MEMORY
#define USE_TEMPORARY_MEMORY
---- ( cut here ) ----  gc_prefix_appmem.h      -- 68K and PPC -----
#include "gc_prefix_common.h"
#undef USE_TEMPORARY_MEMORY
#define USE_TEMPORARY_MEMORY
// #define USE_TEMPORARY_MEMORY

---- ( cut here ) ----  gc_prefix_common.h      --------------------
// gc_prefix_common.h
// ------------------
// Codewarrior prefix file to configure the GC libraries
//
// prefix files are the Codewarrior equivalent of the
// command line option -Dname=x frequently seen in makefiles

#if !__MWERKS__
#error only tried this with Codewarrior
#endif

#if macintosh
#define MSL_USE_PRECOMPILED_HEADERS 0
#include <ansi_prefix.mac.h>
#ifndef __STDC__
#define __STDC__ 0
#endif
//  See list of #defines to configure the library in: 'MakeFile'
//  see also README
#define SILENT                // no collection messages. In case
                          // of trouble you might want this off
#define ALL_INTERIOR_POINTERS // follows interior pointers.
//#define DONT_ADD_BYTE_AT_END // disables the padding if defined.
//#define SMALL_CONFIG          // whether to use a smaller heap.
#define NO_SIGNALS            // signals aren't real on the Macintosh.
#define ATOMIC_UNCOLLECTABLE  // GC_malloc_atomic_uncollectable()

// define either or none as per personal preference
// used in malloc.c
#define REDIRECT_MALLOC GC_malloc
//#define REDIRECT_MALLOC GC_malloc_uncollectable
// if REDIRECT_MALLOC is #defined make sure that the GC library
// is listed before the ANSI/ISO libs in the Codewarrior
// 'Link order' panel
```
// define IGNORE_FREE

// mac specific configs
// define USE_TEMPORARY_MEMORY  // use Macintosh temporary memory.
// define SHARED_LIBRARY_BUILD  // build for use in a shared library.

#else
// could build Win32 here too, or in the future
// Rhapsody PPC-mach, Rhapsody PPC-MacOS,
// Rhapsody Intel-mach, Rhapsody Intel-Win32,...
// ... ugh this will get messy ...
#endif

// make sure ints are at least 32-bit
// ( could be set to 16-bit by compiler settings (68K) )

struct gc_private_assert_intsize_{ char x[ sizeof(int)>=4 ? 1 : 0 ]; }

#if __powerc
#if __option(toc_data)
#error turn off "store static data in TOC" when using GC
// ... or find a way to add TOC to the root set... (?)
#endif
#endif

Files to build the GC libraries:

-----------------------------
allchblk.c
alloc.c
blacklst.c
checksums.c
dbg_mlc.c
finalize.c
headers.c
mach_dep.c
MacOS.c   -- contains MacOS code
malloc.c
mallocx.c
mark.c
mark_rts.c
misc.c
new_hblk.c
obj_map.c
os_dep.c   -- contains MacOS code
ptr_chck.c
reclaim.c
stubborn.c
typd_mlc.c
ge++.cc  -- this is 'gc_cpp.cc' with less 'inline' and
-- throw std::bad_alloc when out of memory
-- gc_cpp.cc works just fine too

2) Test that the library works with 'test.c'.

=================================================================================

The test app is just an ordinary ANSI-C console app. Make sure settings
match the library you're testing.

Files
-----

    test.c
the GC library to test   -- link order before ANSI libs
suitable Mac+ANSI libraries

prefix:
-----

---- ( cut here ) ---- gc_prefix_testlib.h   -- all libs -----
#define MSL_USE_PRECOMPILED_HEADERS 0
#include <ansi_prefix.mac.h>
#undef NDEBUG
#define ALL_INTERIOR_POINTERS	/* for GC_priv.h */
---- ( cut here ) ----

3) Test that the C++ interface 'gc_cpp.cc/h' works with 'test_cpp.cc'.

The test app is just an ordinary ANSI-C console app. Make sure settings match
the library you're testing.

Files
-----

    test_cpp.cc
the GC library to test   -- link order before ANSI libs
suitable Mac+ANSI libraries

prefix:
-----

same as for test.c

For convenience I used one test-project with several targets so that all
test apps are build at once. Two for each library to test: test.c and
gc_app.cc. When I was satisfied that the libraries were ok. I put the
libraries + gc.h + the c++ interface-file in a folder that I then put into
the MSL hierarchy so that I don't have to alter access-paths in projects
that use the GC.
After that, just add the proper GC library to your project and the GC is in action! malloc will call GC_malloc and free GC_free, new/delete too. You don't have to call free or delete. You may have to be a bit cautious about delete if you're freeing other resources than RAM. See gc_cpp.h. You can also keep coding as always with delete/free. That works too. If you want, "include <gc.h> and tweak it's use a bit.

Symantec SPM
============
It has been a while since I tried the GC in SPM, but I think that the above instructions should be sufficient to guide you through in SPM too. SPM needs to know where the global data is. Use the files 'datastart.c' and 'dataend.c'. Put 'datastart.c' at the top of your project and 'dataend.c' at the bottom of your project so that all data is surrounded. This is not needed in Codewarrior because it provides intrinsic variables __datastart__, __data_end__ that wraps all globals.

Source Changes (GC 4.12a2)
==========================
Very few. Just one tiny in the GC, not strictly needed.
- MacOS.c line 131 in routine GC_MacFreeTemporaryMemory()
change # if !defined(SHARED_LIBRARY_BUILD)
to # if !defined(SILENT) & & !defined(SHARED_LIBRARY_BUILD)
To turn off a message when the application quits (actually, I faked this change by #defining SHARED_LIBRARY_BUILD in a statically linked library for more than a year without ill effects but perhaps this is better).
- test_cpp.cc
made the first lines of main() look like this:
-------------
int main( int argc, char* argv[] ) {#endif
#if macintosh // MacOS
char* argv_[] = {"test_cpp","10"}; // doesn't
argc=argc_; // have a
argc = sizeof(argv_)/sizeof(argv_[0]); // commandline
#endif

int i, iters, n;
# ifndef __GNUC__
alloc dummy_to_fool_the_compiler_into_doing_thins_it_currently_cant_handle;
-------------

- config.h [now gcconfig.h]
__MWERKS__ does not have to mean MACOS. You can use Codewarrior to build a Win32 or BeOS library and soon a Rhapsody library. You may
have to change that #if...

It worked for me, hope it works for you.

Lars Farm
18 July 1997

Patrick Beard's instructions (may be dated):

v4.3 of the collector now runs under Symantec C++/THINK C v7.0.4, and Metrowerks C/C++ v4.5 both 68K and PowerPC. Project files are provided to build and test the collector under both development systems.

Configuration
-------------

To configure the collector, under both development systems, a prefix file is used to set preprocessor directives. This file is called "MacOS_config.h". Also to test the collector, "MacOS_Test_config.h" is provided.

Testing
-------

To test the collector (always a good idea), build one of the gctest projects, gctest." (Symantec C++/THINK C), mw/gctest.68K.", or mw/gctest.PPC.". The test will ask you how many times to run; 1 should be sufficient.

Building
--------

For your convenience project files for the major Macintosh development systems are provided.

For Symantec C++/THINK C, you must build the two projects gclib-1." and gclib-2.". It has to be split up because the collector has more than 32k of static data and no library can have more than this in the Symantec environment. (Future versions will probably fix this.)

For Metrowerks C/C++ 4.5 you build gc.68K."/gc.PPC." and the result will be a library called gc.68K.lib/gc.PPC.lib.

Using
-----
Under Symantec C++/THINK C, you can just add the gclib-1." and gclib-2." projects to your own project. Under Metrowerks, you add gc.68K.lib or gc.PPC.lib and two additional files. You add the files called datastart.c and dataend.c to your project, bracketing all files that use the collector. See mw/gctest." for an example.

Include the projects/libraries you built above into your own project, 
#include "gc.h", and call GC_malloc. You don't have to call GC_free.

Patrick C. Beard
January 4, 1995

See README.darwin for the latest Darwin/MacOSX information.
The collector uses a large amount of conditional compilation in order to
deal with platform dependencies. This violates a number of known coding
standards. On the other hand, it seems to be the only practical way to
support this many platforms without excessive code duplication.

A few guidelines have mostly been followed in order to keep this manageable:

1) #if and #ifdef directives are properly indented whenever easily possible.
All known C compilers allow whitespace between the "#" and the "if" to make
this possible. ANSI C also allows white space before the "#", though we
avoid that. It has the known disadvantages that it differs from the normal
GNU conventions, and that it makes patches larger than otherwise necessary.
In my opinion, it's still well worth it, for the same reason that we indent
ordinary "if" statements.

2) Whenever possible, tests are performed on the macros defined in gcconfig.h
instead of directly testing platform-specific predefined macros. This makes it
relatively easy to adapt to new compilers with a different set of predefined
macros. Currently these macros generally identify platforms instead of
features. In many cases, this is a mistake.

3) The code currently avoids #elif, even though that would make it more
readable. This was done since #elif would need to be understood by ALL
compilers used to build the collector, and that hasn't always been the case.
It makes sense to reconsider this decision at some point, since #elif has been
standardized at least since 1989.

Many of the tested configuration macros are at least somewhat defined in
either include/private/gcconfig.h or in Makefile.direct. Here is an attempt
at defining some of the remainder: (Thanks to Walter Bright for suggesting
this. This is a work in progress)

MACROEXPLANATION
----------------
__DMC__
Always #define'd by the Digital Mars compiler. Expands to the compiler version number in hex, i.e. 0x810 is version 8.1b0

_ENABLE_ARRAYNEW
#define'd by the Digital Mars C++ compiler when operator new[] and delete[] are separately overloadable. Used in gc_cpp.h.

_MSC_VER
Expands to the Visual C++ compiler version. Assumed to not be defined for other compilers (at least if they behave appreciably differently).

_DLL
Defined by Visual C++ if dynamic libraries are being built or used. Used to test whether __declspec(dllimport) or __declspec(dllexport) needs to be added to declarations to support the case in which the collector is in a dll.

_GC_DLL
User-settable macro that forces the effect of _DLL. Set by gc.h if _DLL is defined and GC_NOT_DLL is undefined. This is the macro that is tested internally to determine whether the GC is in its own dynamic library. May need to be set by clients before including gc.h. Note that inside the GC implementation it indicates that the collector is in its own dynamic library, should export its symbols, etc. But in clients it indicates that the GC resides in a different DLL, its entry points should be referenced accordingly, and precautions may need to be taken to properly deal with statically allocated variables in the main program. Used only for MS Windows.

_GC_NOT_DLL
User-settable macro that overrides _DLL, e.g. if dynamic libraries are used, but the collector is in a static library.

__STDC__
Assumed to be defined only by compilers that understand prototypes and other C89 features. Its value is generally not used, since we are fine with most nonconforming extensions.

SUNOS5SIGS
Solaris-like signal handling. This is probably misnamed, since it really doesn't guarantee much more than Posix. Currently set only for Solaris2.X, HPUX, and DRSNX. Should probably be set for some other platforms.

PCR
Set if the collector is being built as part of the Xerox Portable Common Runtime.

SRC_M3
Set if the collector is being built as a replacement of the one in the DEC/Compaq SRC Modula-3 runtime. I suspect this
was last used around 1994, and no doubt broke a long time ago.
It's there primarily incase someone wants to port to a similar
system.

USE_COMPILER_TLS Assume the existence of __thread-style thread-local
storage. Set automatically for thread-local allocation with
the HP/UX vendor compiler. Usable with gcc on sufficiently
up-to-date ELF platforms.

-*. Outline -*.

Read this file if you are a Debian Developer or would like to become
one, or if you would like to create your own binary packages of GCC.

* Overview

From the GCC sources, Debian currently builds 3 source packages and
almost 100 binary packages, using a single set of build scripts. The
3 source packages are:

gcc-4.3: C, C++, Fortran, Objective-C and Objective-C++, plus many
common libraries like libssp, libmudflap, and libgcc.
gcj-4.3: Java.
gnat-4.3: Ada.

The way we do this is quite peculiar, so listen up :)

When we build from the gcc-4.3 source package, we produce, among many
others, a gcc-4.3-source binary package that contains the pristine
upstream tarball and some Debian-specific patches. Any user can then
install this package on their Debian system, and will have the full
sources in /usr/src/gcc-4.3/gcc-<timestamp>.tar.bz2, along with the
Makefile snippets that unpack and patch them.

The intended use for this package is twofold: (a) allow users to build
their own cross-compilers, and (b) build the other two packages,
gcj-4.3 and gnat-4.3.

For gcj-4.3 and gnat-4.3, the "source tarball" just contains an empty
directory; e.g.:

$ tar tzf gnat-4.3_4.3-20070609.orig.tar.gz
gnat-4.3-4.3-20070609.orig/ 

The build scripts for all source packages are the same, and they are
included, as usual, in the .diff.gz file.
* The build sequence

As for all other Debian packages, you build GCC by calling 
debian/rules.

The first thing debian/rules does is to look at the top-most entry in 
debian/changelog: this tells it which source package it is building. 
For example, if the first entry in debian/changelog reads:

gcj-4.3 (4.3-20070609-1) unstable; urgency=low

* Upload as gcc-4.3.

-- Ludovic Brenta <lbrenta@debian.org> Tue, 26 Jun 2007 00:26:42 +0200

then, debian/rules will build only the Java binary packages.

The second step is to unpack the GCC source tarball. This tarball is 
either in the build directory (when building gcc-4.3), or in 
/usr/src/gcc-4.3/gcc-<timestamp>.tar.bz2 (when building the other 
source packages).

The third step is to build debian/control from debian/control.m4 and a 
complex set of rules specified in debian/rules.conf. The resulting 
control file contains only the binary packages to be built.

The fourth step is to select which patches to apply (this is done in 
debian/rules.defs), and then to apply the selected patches (see 
debian/rules.patch).

The fifth step is to create a "build" directory, cd into it, call 
../src/configure, and bootstrap the compiler and libraries selected. 
This is in debian/rules2.

The sixth step is to call "make install" in the build directory: this 
installs the compiler and libraries into debian/tmp 
(i.e. debian/tmp/usr/bin/gcc, etc.)

The seventh step is to run the GCC test suite (this actually takes at 
least as much time as bootstrapping, and you can disable it by setting 
WITHOUT_CHECK to "yes" in the environment).

The eighth step is to build the binary packages, i.e. the .debs. This 
is done by a set of language- and architecture-dependent Makefile 
nips in the debian/rules.d/ directory, which move files from the 
debian/tmp tree to the debian/<package> trees.
* Making your own packages

In this example, we will build our own gnat-4.3 package.

1) Create a .orig.tar.gz tarball containing a single, empty directory.

$ mkdir gnat-4.3-4.3-20070609.orig
$ tar czf gnat-4.3-4.3-20070609.orig.tar.gz gnat-4.3-4.3-20070609.orig

2) Install gcc-4.3-source, which contains the real sources:

# apt-get install gcc-4.3-source

3) Create a build directory:

$ mkdir gnat-4.3-4.3-20070609; cd gnat-4.3-4.3-20070609

4) Checkout from Subversion:

$ svn checkout svn://svn.debian.org/gcccvs/branches/sid/gcc-4.3/debian

5) Edit the debian/changelog file, adding a new entry at the top that
    starts with "gnat-4.3" instead of "gcc-4.3".

6) Generate the debian/control file, adjusted for gnat:

$ debian/rules control

7) Build:

$ dpkg-buildpackage -rfakeroot

* Hints

You need a powerful machine to build GCC. The larger, the better.
The build scripts take advantage of as many CPU threads as are
available in your box (for example: 2 threads on a dual-core amd64; 4
threads on a dual-core POWER5; 32 threads on an 8-core UltraSPARC T1,
etc.).

If you have 2 GB or more of physical RAM, you can achieve maximum
performance by building in a tmpfs, like this:

1) as root, create the new tmpfs:

# mount -t tmpfs -o size=1280m none /home/lbrenta/src/debian/ram

By default, the tmpfs will be limited to half your physical RAM. The
beauty of it is that it only consumes as much physical RAM as necessary to hold the files in it; deleting files frees up RAM.

2) As your regular user, create the working directory in the tmpfs

$ cp --archive ~/src/debian/gcc-4.3-4.3-20070901 ~/src/debian/ram

3) Build in there. On my dual-core, 2 GHz amd64, it takes 34 minutes to build gnat, and the tmpfs takes 992 MiB of physical RAM but exceeds 1 GiB during the build.

Note that the build process uses a lot of temporary files. Your $TEMP directory should therefore also be in a ram disk. You can achieve that either by mounting it as tmpfs, or by setting TEMP to point to ~/src/debian/ram.

Also note that each thread in your processor(s) will run a compiler in it and use up RAM. Therefore your physical memory should be:

\[ \text{Physical_RAM} \geq 1.2 + 0.4 \times \text{Threads (in GiB)} \]

(this is an estimate; your mileage may vary). If you have less physical RAM than recommended, reduce the number of threads allocated to the build process, or do not use a tmpfs to build.

* Patching GCC

Debian applies a large number of patches to GCC as part of the build process. The patches are shell scripts located in debian/patches. The file debian/rules.defs selects the language front-ends and libraries to build. Then, based on that, debian/rules.patch selects which patches to apply and in which order, then applies them and produces a file listing the applied patches in order in stamps/02-patch-stamp.

There is currently no tool to help modify patches; you have to do it by hand. Here is one possible way to do it:

1) Apply all patches up to and EXCLUDING the patch you intend to modify, in order.

2) Make a deep copy of the src directory, e.g.

   $ cp --archive src src.bak

3) Apply the patch you intend to modify.

4) Open the .dpatch file in your editor and remove the entire patch section; leave alone the shell script part at the top.
5) Change the files you want in the src directory. After making changes, you can experiment with
   $ make -C build -jK
   (where K is the number of processor threads you have)

6) $ diff -rNu src.bak src >> debian/patches/<file>.dpatch

7) Apply all remaining patches, to see if your change broke any of them.

8) $ svn commit debian/patches/<file>.dpatch

If you want to add a new patch, the procedure is similar. You must first choose where in the list of patches you want to insert your new patch. Then, apply all patches up to that point and start editing. Do not forget to add a reference to your patch at the proper place in debian/rules.patch.

** Patching GCC with Quilt

The above method uses an entire copy of the source tree, which is currently 474 megabytes in size. If you are in a one-gigabyte ram disk (see Hints above), this may be a problem. One solution to this problem is to use quilt, which will only keep copies of the files touched by patches, not all files. It also automates the updating of a patch after you change the sources.

Quilt however does not take into account the selection of patches made in debian/rules.defs; instead it has a static list of patches. After calling "debian/rules patch", you can generate such a list like this:

   $ egrep '^[^ ]+: stamps/02-patch-stamp | \n   sed 's!:.dpatch -p0!' > debian/patches/series

Unfortunately, not all patches are applied with -p0; you must then edit debian/patches/series by hand to replace -p0 with -p1 for a few patches.

Once you have your debian/patches/series:

   $ debian/rules unpatch
   $ export QUILT_PATCHES=$PWD/debian/patches
   $ cd src
   $ quilt push -a (or quilt push <patch_name>)
   edit files at will; quilt add <file_name> to add a new file to the patch
   $ make -C ../build
   $ quilt refresh
$ quilt push -a #\"check that no patch is broken\"
$ quilt pop -a
$ cd ..
$ debian/rules clean build
$ svn commit

--
Ludovic Brenta, 2007-12-05.
very not a zip file
PK

pngsuite
-------
(c) Willem van Schaik, 1999

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These 15 images are part of the much larger PngSuite test-set of images, available for developers of PNG supporting software. The complete set, available at http://www.schaik.com/pngsuite/, contains a variety of images to test interlacing, gamma settings, ancillary chunks, etc.

The images in this directory represent the basic PNG color-types: grayscale (1-16 bit deep), full color (8 or 16 bit), paletted (1-8 bit) and grayscale or color images with alpha channel. You can use them to test the proper functioning of PNG software.

<table>
<thead>
<tr>
<th>filename</th>
<th>depth type</th>
</tr>
</thead>
<tbody>
<tr>
<td>basn0g01.png</td>
<td>1-bit grayscale</td>
</tr>
<tr>
<td>basn0g02.png</td>
<td>2-bit grayscale</td>
</tr>
<tr>
<td>basn0g04.png</td>
<td>4-bit grayscale</td>
</tr>
<tr>
<td>basn0g08.png</td>
<td>8-bit grayscale</td>
</tr>
<tr>
<td>basn0g16.png</td>
<td>16-bit grayscale</td>
</tr>
<tr>
<td>basn2c08.png</td>
<td>8-bit truecolor</td>
</tr>
<tr>
<td>basn2c16.png</td>
<td>16-bit truecolor</td>
</tr>
<tr>
<td>basn3p01.png</td>
<td>1-bit paletted</td>
</tr>
<tr>
<td>basn3p02.png</td>
<td>2-bit paletted</td>
</tr>
<tr>
<td>basn3p04.png</td>
<td>4-bit paletted</td>
</tr>
<tr>
<td>basn3p08.png</td>
<td>8-bit paletted</td>
</tr>
<tr>
<td>basn4a08.png</td>
<td>8-bit gray with alpha</td>
</tr>
<tr>
<td>basn4a16.png</td>
<td>16-bit gray with alpha</td>
</tr>
<tr>
<td>basn6a08.png</td>
<td>8-bit RGBA</td>
</tr>
<tr>
<td>basn6a16.png</td>
<td>16-bit RGBA</td>
</tr>
</tbody>
</table>

Here is the correct result of typing "pngtest -m *.png" in
this directory:

Testing basn0g01.png: PASS (524 zero samples)
Filter 0 was used 32 times
Testing basn0g02.png: PASS (448 zero samples)
Filter 0 was used 32 times
Testing basn0g04.png: PASS (520 zero samples)
Filter 0 was used 32 times
Testing basn0g08.png: PASS (3 zero samples)
Filter 1 was used 9 times
Filter 4 was used 23 times
Testing basn0g16.png: PASS (1 zero samples)
Filter 1 was used 1 times
Filter 2 was used 31 times
Testing basn2c08.png: PASS (6 zero samples)
Filter 1 was used 5 times
Filter 4 was used 27 times
Testing basn2c16.png: PASS (592 zero samples)
Filter 1 was used 1 times
Filter 4 was used 31 times
Testing basn3p01.png: PASS (512 zero samples)
Filter 0 was used 32 times
Testing basn3p02.png: PASS (448 zero samples)
Filter 0 was used 32 times
Testing basn3p04.png: PASS (544 zero samples)
Filter 0 was used 32 times
Testing basn3p08.png: PASS (4 zero samples)
Filter 0 was used 32 times
Testing basn4a08.png: PASS (32 zero samples)
Filter 1 was used 1 times
Filter 4 was used 31 times
Testing basn4a16.png: PASS (64 zero samples)
Filter 0 was used 1 times
Filter 1 was used 2 times
Filter 2 was used 1 times
Filter 4 was used 28 times
Testing basn6a08.png: PASS (160 zero samples)
Filter 1 was used 1 times
Filter 4 was used 31 times
Testing basn6a16.png: PASS (1072 zero samples)
Filter 1 was used 4 times
Filter 4 was used 28 times
libpng passes test

Willem van Schaik
<willem@schaik.com>
October 1999
The code assumes static linking, and a single thread. The editor de has not been ported. The cord test program has. The supplied OS2_MAKEFILE assumes the IBM C Set/2 environment, but the code shouldn't.

Since we haven't figured out how to do perform partial links or to build static libraries, clients currently need to link against a long list of executables.

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This file is intended to contain a few notes about writing C code within GCC so that it compiles without error on the full range of compilers GCC needs to be able to compile on.

The problem is that many ISO-standard constructs are not accepted by either old or buggy compilers, and we keep getting bitten by them. This knowledge until now has been sparsely spread around, so I thought I'd collect it in one useful place. Please add and correct any problems as you come across them.

I'm going to start from a base of the ISO C90 standard, since that is probably what most people code to naturally. Obviously using constructs introduced after that is not a good idea.

For the complete coding style conventions used in GCC, please read http://gcc.gnu.org/codingconventions.html

String literals
---------------

Irix6 "cc -n32" and OSF4 "cc" have problems with constant string initializers with parens around it, e.g.

const char string[] = ("A string");

This is unfortunate since this is what the GNU gettext macro N_ produces. You need to find a different way to code it.

Some compilers like MSVC++ have fairly low limits on the maximum length of a string literal; 509 is the lowest we've come across. You may need to break up a long printf statement into many smaller ones.

Empty macro arguments
-----------------------

ISO C (6.8.3 in the 1990 standard) specifies the following:

If (before argument substitution) any argument consists of no
preprocessing tokens, the behavior is undefined.

This was relaxed by ISO C99, but some older compilers emit an error, so code like

#define foo(x, y) x y
foo (bar, )

needs to be coded in some other way.

free and realloc
----------------

Some implementations crash upon attempts to free or realloc the null pointer. Thus if mem might be null, you need to write

if (mem)
    free (mem);

Trigraphs
---------

You weren't going to use them anyway, but some otherwise ISO C compliant compilers do not accept trigraphs.

Suffixes on Integer Constants
-----------------------------

You should never use a 'l' suffix on integer constants ('L' is fine), since it can easily be confused with the number 'l'.

Common Coding Pitfalls
-----------------------

errno
----

errno might be declared as a macro.

Implicit int
------------

In C, the 'int' keyword can often be omitted from type declarations.
For instance, you can write

unsigned variable;

as shorthand for

unsigned int variable;

There are several places where this can cause trouble. First, suppose 'variable' is a long; then you might think

(unsigned) variable

would convert it to unsigned long. It does not. It converts to unsigned int. This mostly causes problems on 64-bit platforms, where long and int are not the same size.

Second, if you write a function definition with no return type at all:

operate (int a, int b)
{
    ...
}

that function is expected to return int, *not* void. GCC will warn about this.

Implicit function declarations always have return type int. So if you correct the above definition to

void
operate (int a, int b)
...

but operate() is called above its definition, you will get an error about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an appropriate header.

Char vs unsigned char vs int
----------------------------

In C, unqualified 'char' may be either signed or unsigned; it is the implementation's choice. When you are processing 7-bit ASCII, it does not matter. But when your program must handle arbitrary binary data, or fully 8-bit character sets, you have a problem. The most obvious issue is if you have a look-up table indexed by characters.
For instance, the character `\341` in ISO Latin 1 is SMALL LETTER A WITH ACUTE ACCENT. In the proper locale, isalpha(`\341`) will be true. But if you read `\341` from a file and store it in a plain char, isalpha(c) may look up character 225, or it may look up character -31. And the ctype table has no entry at offset -31, so your program will crash. (If you’re lucky.)

It is wise to use unsigned char everywhere you possibly can. This avoids all these problems. Unfortunately, the routines in `<string.h>` take plain char arguments, so you have to remember to cast them back and forth - or avoid the use of `strxxx()` functions, which is probably a good idea anyway.

Another common mistake is to use either char or unsigned char to receive the result of `getc()` or related stdio functions. They may return EOF, which is outside the range of values representable by char. If you use char, some legal character value may be confused with EOF, such as `\377` (SMALL LETTER Y WITH UMLAUT, in Latin-1). The correct choice is int.

A more subtle version of the same mistake might look like this:

```c
unsigned char pushback[NPUSHBACK];
int pbidx;
#define unget(c) (assert(pbidx < NPUSHBACK), pushback[pbidx++] = (c))
#define get(c) (pbidx ? pushback[--pbidx] : getchar())
...
unget(EOF);
```

which will mysteriously turn a pushed-back EOF into a SMALL LETTER Y WITH UMLAUT.

Other common pitfalls
----------------------

- Expecting 'plain' char to be either sign or unsigned extending.
- Shifting an item by a negative amount or by greater than or equal to the number of bits in a type (expecting shifts by 32 to be sensible has caused quite a number of bugs at least in the early days).
- Expecting ints shifted right to be sign extended.
- Modifying the same value twice within one sequence point.
- Host vs. target floating point representation, including emitting NaNs
and Infinities in a form that the assembler handles.

- qsort being an unstable sort function (unstable in the sense that multiple items that sort the same may be sorted in different orders by different qsort functions).

- Passing incorrect types to fprintf and friends.

- Adding a function declaration for a module declared in another file to a .c file instead of to a .h file.

This directory contains project files for building zlib under various Integrated Development Environments (IDE).

If you wish to submit a new project to this directory, you should comply to the following requirements. Otherwise (e.g. if you wish to integrate a custom piece of code that changes the zlib interface or its behavior), please consider submitting the project to the contrib directory.

Requirements
=============

- The project must build zlib using the source files from the official zlib source distribution, exclusively.

- If the project produces redistributable builds (e.g. shared objects or DLL files), these builds must be compatible to those produced by makefiles, if such makefiles exist in the zlib distribution. In particular, if the project produces a DLL build for the Win32 platform, this build must comply to the officially-amended Win32 DLL Application Binary Interface (ABI), described in win32/DLL_FAQ.txt.

- The project may provide additional build targets, which depend on 3rd-party (unofficially-supported) software, present in the contrib directory. For example, it is possible to provide an "ASM build", besides the officially-supported build, and have ASM source files among its dependencies.

- If there are significant differences between the project files created by different versions of an IDE (e.g. Visual C++ 6.0 vs. 7.0), the name of the project directory should contain the version number of the IDE for which the project is intended (e.g. "visualc6" for Visual C++ 6.0, or "visualc7" for Visual C++ 7.0 and 7.1).

Current projects
================
visualc6/ by Simon-Pierre Cadieux <methodex@methodex.ca> and Cosmin Truta <cosmint@cs.ubbcluj.ro>
Project for Microsoft Visual C++ 6.0
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

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We have so far failed to find a good way to determine the stack base. It is highly recommended that GC_stackbottom be set explicitly on program startup. The supplied value sometimes causes failure under AIX 4.1, though it appears to work under 3.X. HEURISTIC2 seems to work under 4.1, but involves a substantial performance penalty, and will fail if there is no limit on stack size.

There is no thread support. (I assume recent versions of AIX provide pthreads? I no longer have access to a machine ...) Performance of the incremental collector can be greatly enhanced with -DNO_EXECUTE_PERMISSION.

The collector should run with all of the -32, -n32 and -64 ABIs. Remember to define the AS macro in the Makefile to be "as -64", or "as -n32".

If you use -DREDIRECT_MALLOC=GC_malloc with C++ code, your code should make at least one explicit call to malloc instead of new to ensure that the proper version of malloc is linked in.

Sproc threads are not supported in this version, though there may exist other ports.

Pthreads support is provided. This requires that:

1) You compile the collector with -DGCC_IRIX_THREADS specified in the Makefile.

2) You have the latest pthreads patches installed.

(Though the collector makes only documented pthread calls, it relies on signal/threads interactions working just right in ways that are not required by the standard. It is unlikely that this code will run on other pthreads platforms. But please tell me if it does.)

3) Every file that makes thread calls should define IRIX_THREADS and then include gc.h. Gc.h redefines some of the pthread primitives as macros which also provide the collector with information it requires.

4) pthread_cond_wait and pthread_cond_timed_wait should be prepared for premature wakeups. (I believe the pthreads and related standards require this anyway. Irix pthreads often terminate a wait if a signal arrives. The garbage collector uses signals to stop threads.)
5) It is expensive to stop a thread waiting in IO at the time the request is initiated. Applications with many such threads may not exhibit acceptable performance with the collector. (Increasing the heap size may help.)

6) The collector should not be compiled with -DREDIRECT_MALLOC. This confuses some library calls made by the pthreads implementation, which expect the standard malloc.

Debian gcc-snapshot package
=================================

This package contains a recent development SNAPSHOT of all files contained in the GNU Compiler Collection (GCC).

DO NOT USE THIS SNAPSHOT FOR BUILDING DEBIAN PACKAGES!

This package will NEVER hit the testing distribution. It's used for tracking gcc bugs submitted to the Debian BTS in recent development versions of gcc.

To use this snapshot, you should set the following environment variables:

```
LD_LIBRARY_PATH=/usr/lib/gcc-snapshot/lib:$LD_LIBRARY_PATH
PATH=/usr/lib/gcc-snapshot/bin:$PATH
```

You might also like to use a shell script to wrap up this functionality, e.g.

```
place in /usr/local/bin/gcc-snapshot and chmod +x it

--------- snip ---------
#!/bin/sh
LD_LIBRARY_PATH=/usr/lib/gcc-snapshot/lib:$LD_LIBRARY_PATH
PATH=/usr/lib/gcc-snapshot/bin:$PATH
gcc "$@
--------- snip ---------
```

Make the same for g++, g77, gjj, gcj, cpp, ...

Don't forget the quotes around the $@ or gcc will not parse it's command line correctly!

Unset these variables before building Debian packages destined for an upload to ftp-master.debian.org.

The collector supports both incremental collection and threads under Solaris 2. The incremental collector normally retrieves page dirty information through the appropriate /proc calls. But it can also be configured (by defining MPROTECT_VDB instead of PROC_VDB in gcconfig.h) to use mprotect
and signals. This may result in shorter pause times, but it is no longer safe to issue arbitrary system calls that write to the heap.

Under other UNIX versions, the collector normally obtains memory through sbrk. There is some reason to expect that this is not safe if the client program also calls the system malloc, or especially realloc. The sbrk man page strongly suggests this is not safe: "Many library routines use malloc() internally, so use brk() and sbrk() only when you know that malloc() definitely will not be used by any library routine." This doesn't make a lot of sense to me, since there seems to be no documentation as to which routines can transitively call malloc. Nonetheless, under Solaris2, the collector now (since 4.12) allocates memory using mmap by default. (It defines USE_MMAP in gcconfig.h.) You may want to reverse this decisions if you use -DREDIRECT_MALLOC=... 

SOLARIS THREADS:

The collector must be compiled with -DGC_SOLARIS_THREADS (thr_ functions) or -DGC_SOLARIS_PTHREADS (pthread_ functions) to be thread safe. It is also essential that gc.h be included in files that call thr_create, thr_join, thr_suspend, thr_continue, or dlopen. Gc.h macro defines these to also do GC bookkeeping, etc. Gc.h must be included with one or both of these macros defined, otherwise these replacements are not visible. A collector built in this way way only be used by programs that are linked with the threads library.

In this mode, the collector contains various workarounds for older Solaris bugs. Mostly, these should not be noticeable unless you look at system call traces. However, it cannot protect a guard page at the end of a thread stack. If you know that you will only be running Solaris2.5 or later, it should be possible to fix this by compiling the collector with -DSOLARIS23_MPROTECT_BUG_FIXED.

Since 5.0 alpha5, dlopen disables collection temporarily, unless USE_PROC_FOR_LIBRARIES is defined. In some unlikely cases, this can result in unpleasant heap growth. But it seems better than the race/deadlock issues we had before.

If solaris_threads are used on an X86 processor with malloc redirected to GC_malloc a deadlock is likely to result.

It appears that there is a problem in using gc_cpp.h in conjunction with Solaris threads and Sun's C++ runtime. Apparently the overloaded new operator is invoked by some iostream initialization code before threads are correctly initialized. As a result, call to thr_self() in garbage collector initialization segfaults. Currently the only known workaround is to not
invoke the garbage collector from a user defined global operator new, or to have it invoke the garbage-collector's allocators only after main has started. (Note that the latter requires a moderately expensive test in operator delete.)

Hans-J. Boehm
(The above contains my personal opinions, which are probably not shared by anyone else.)

Patches applied to the Debian version of GCC

Debian specific patches can be found in the debian/patches directory.
Quilt is used as the patch system. See /usr/share/doc/quilt/README.source for details about quilt.

Patches are applied by calling `debian/rules patch'. The `series' file is constructed on the fly, configure scripts are regenerated in the `patch' target.

The source packages gcj-x.y and gnat-x.y do not contain copies of the source code but build-depend on the appropriate gcc-x.y-source package instead.
Stack smashing protection is a feature of GCC that enables a program to detect buffer overflows and immediately terminate execution, rather than continuing execution with corrupt internal data structures. It uses "canaries" and local variable reordering to reduce the likelihood of stack corruption through buffer overflows.

Options that affect stack smashing protection:

-fstack-protector
   Enables protection for functions that are vulnerable to stack smashing, such as those that call alloca() or use pointers.

-fstack-protector-all
   Enables protection for all functions.

-Wstack-protector
   Warns about functions that will not be protected. Only active when -fstack-protector has been used.

Applications built with stack smashing protection should link with the ssp library by using the option "-lssp" for systems with glibc-2.3.x or older; glibc-2.4 and newer versions provide this functionality in libc.

The Debian architectures alpha, hppa, ia64, m68k, mips, mipsel do not have support for stack smashing protection.
More documentation can be found at the project's website:
Microsoft Developer Studio Project Files, Format Version 6.00 for zlib.

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This project builds the zlib binaries as follows:

* Win32_DLL_Release\zlib1.dll       DLL build
* Win32_DLL_Debug\zlib1d.dll        DLL build (debug version)
* Win32_DLL_ASM_Release\zlib1.dll   DLL build using ASM code
* Win32_DLL_ASM_Debug\zlib1d.dll    DLL build using ASM code (debug version)
* Win32_LIB_Release\zlib.lib       static build
* Win32_LIB_Debug\zlibd.lib         static build (debug version)
* Win32_LIB_ASM_Release\zlib.lib    static build using ASM code
* Win32_LIB_ASM_Debug\zlibd.lib     static build using ASM code (debug version)

For more information regarding the DLL builds, please see the DLL FAQ
in ..\..\win32\DLL_FAQ.txt.

To build and test:

1) On the main menu, select "File | Open Workspace".
   Open "zlib.dsw".

2) Select "Build | Set Active Configuration".
   Choose the configuration you wish to build.

3) Select "Build | Clean".

4) Select "Build | Build ... (F7)". Ignore warning messages about
   not being able to find certain include files (e.g. alloc.h).

5) If you built one of the sample programs (example or minigzip),
   select "Build | Execute ... (Ctrl+F5)".

To use:

1) Select "Project | Settings (Alt+F7)".
   Make note of the configuration names used in your project.
   Usually, these names are "Win32 Release" and "Win32 Debug".
2) In the Workspace window, select the "FileView" tab. Right-click on the root item "Workspace '...'". Select "Insert Project into Workspace". Switch on the checkbox "Dependency of:", and select the name of your project. Open "zlib.dsp".

3) Select "Build | Configurations". For each configuration of your project:
   3.1) Choose the zlib configuration you wish to use.
   3.2) Click on "Add".
   3.3) Set the new zlib configuration name to the name used by the configuration from the current iteration.

4) Select "Build | Set Active Configuration". Choose the configuration you wish to build.

5) Select "Build | Build ... (F7)".

6) If you built an executable program, select "Build | Execute ... (Ctrl+F5)".

Note:

To build the ASM-enabled code, you need Microsoft Assembler (ML.EXE). You can get it by downloading and installing the latest Processor Pack for Visual C++ 6.0. Alistair Crooks supplied the port. He used Lexa C version 2.1.3 with -Xa to compile.
The verifier tests come from Mauve. See http://sources.redhat.com/mauve

You want the "verify" module in the Mauve cvs repository.

In Mauve, only the sources are checked in. However, these need jasmin to be compiled to bytecode. Since jasmin would require either another VM or gcj itself to already be working and installed (just to compile it), we've chose to precompile all the .j files to .class files and then import the result.
The collector has at various times been compiled under Windows 95 & later, NT, and XP, with the original Microsoft SDK, with Visual C++ 2.0, 4.0, and 6, with the GNU win32 tools, with Borland 4.5, with Watcom C, and recently with the Digital Mars compiler. It is likely that some of these have been broken in the meantime. Patches are appreciated.

For historical reasons, the collector test program "gctest" is linked as a GUI application, but does not open any windows. Its output appears in the file
"gc.log". It may be started from the file manager. The hour glass cursor may appear as long as it's running. If it is started from the command line, it will usually run in the background. Wait a few minutes (a few seconds on a modern machine) before you check the output. You should see either a failure indication or a "Collector appears to work" message.

The cord test program has not been ported (but should port easily). A toy editor (cord/de.exe) based on cords (heavyweight strings represented as trees) has been ported and is included. It runs fine under either win32 or win32S. It serves as an example of a true Windows application, except that it was written by a nonexpert Windows programmer. (There are some peculiarities in the way files are displayed. The <cr> is displayed explicitly for standard DOS text files. As in the UNIX version, control characters are displayed explicitly, but in this case as red text. This may be suboptimal for some tastes and/or sets of default window colors.)

In general -DREDIRECT_MALLOC is unlikely to work unless the application is completely statically linked.

The collector normally allocates memory from the OS with VirtualAlloc. This appears to cause problems under Windows NT and Windows 2000 (but not Windows 95/98) if the memory is later passed to CreateDIBitmap. To work around this problem, build the collector with -DUSE_GLOBAL_ALLOC. This is currently incompatible with -DUSE_MUNMAP. (Thanks to Jonathan Clark for tracking this down. There's some chance this may be fixed in 6.1alpha4, since we now separate heap sections with an unused page.)

Microsoft Tools
---------------
For Microsoft development tools, rename NT_MAKEFILE as MAKEFILE. (Make sure that the CPU environment variable is defined to be i386.) In order to use the gc_cpp.h C++ interface, all client code should include gc_cpp.h.

For historical reasons, the collector test program "gctest" is linked as a GUI application, but does not open any windows. Its output appears in the file "gc.log". It may be started from the file manager. The hour glass cursor may appear as long as it's running. If it is started from the command line, it will usually run in the background. Wait a few minutes (a few seconds on a modern machine) before you check the output. You should see either a failure indication or a "Collector appears to work" message.

If you would prefer a VC++.NET project file, ask boehm@acm.org. One has
been contributed, but it seems to contain some absolute paths etc., so it can presumably only be a starting point, and is not in the standard distribution. It is unclear (to me, Hans Boehm) whether it is feasible to change that.

Clients may need to define GC_NOT_DLL before including gc.h, if the collector was built as a static library (as it normally is in the absence of thread support).

GNU Tools
--------
For GNU-win32, use the regular makefile, possibly after uncommenting the line "include Makefile.DLLs". The latter should be necessary only if you want to package the collector as a DLL.
[Is the following sentence obsolete? -HB] The GNU-win32 port is believed to work only for b18, not b19, probably due to linker changes in b19. This is probably fixable with a different definition of DATASTART and DATAEND in gcconfig.h.

The collector should also be buildable under Cygwin with either the old standard Makefile, or with the "configure;make" machinery.

Borland Tools
------------
[rarely tested.]
For Borland tools, use BCC_MAKEFILE. Note that Borland's compiler defaults to 1 byte alignment in structures (-a1), whereas Visual C++ appears to default to 8 byte alignment (/Zp8). The garbage collector in its default configuration EXPECTS AT LEAST 4 BYTE ALIGNMENT. Thus the BORLAND DEFAULT MUST BE OVERRIDDEN. (In my opinion, it should usually be anyway. I expect that -a1 introduces major performance penalties on a 486 or Pentium.) Note that this changes structure layouts. (As a last resort, gcconfig.h can be changed to allow 1 byte alignment. But this has significant negative performance implications.) The Makefile is set up to assume Borland 4.5. If you have another version, change the line near the top. By default, it does not require the assembler. If you do have the assembler, I recommend removing the -DUSE GENERIC.

Incremental Collection
----------------------
There is some support for incremental collection. This is currently pretty simple-minded. Pages are protected. Protection faults are caught by a handler installed at the bottom of the handler stack. This is both slow and interacts poorly with a debugger. Whenever possible, I recommend adding a call to GC_enable_incremental at the last possible moment, after most
debugging is complete. Unlike the UNIX versions, no system calls are wrapped by the collector itself. It may be necessary to wrap ReadFile calls that use a buffer in the heap, so that the call does not encounter a protection fault while it's running. (As usual, none of this is an issue unless GC_enable_incremental is called.)

Note that incremental collection is disabled with -DSMALL_CONFIG.

Threads
-------

James Clark has contributed the necessary code to support win32 threads with the collector in a DLL. Use NT_THREADS_MAKEFILE (a.k.a gc.mak) instead of NT_MAKEFILE to build this version. Note that this requires some files whose names are more than 8 + 3 characters long. Thus you should unpack the tar file so that long file names are preserved. To build the garbage collector test with VC++ from the command line, use

```
nmake /F ".\gc.mak" CFG="gtestc - Win32 Release"
```

This requires that the subdirectory gctest\Release exist. The test program and DLL will reside in the Release directory.

This version relies on the collector residing in a dll.

This version currently supports incremental collection only if it is enabled before any additional threads are created.

Since 6.3alpha2, threads are also better supported in static library builds with Microsoft tools (use NT_STATIC_THREADS_MAKEFILE) and with the GNU tools. In all cases, the collector must be built with GC_WIN32_THREADS defined, even if the Cygwin pthreads interface is used. (NT_STATIC_THREADS_MAKEFILE does this implicitly. Under Cygwin, ./configure --enable-threads=posix defines GC_WIN32_THREADS.) Threads must be created with GC_CreateThread. This can be accomplished by including gc.h and then calling CreateThread, which is redefined by gc.h.

For the statically linked versions, it is required that GC_init() be called before other GC calls, since there seems to be no implicit way to initialize the allocation lock. The easiest way to ensure this in portable code is to call GC_INIT() from the main executable (not a dynamic library) before calling any other GC_routines.

We strongly advise against using the TerminateThread() win32 API call, especially with the garbage collector. Any use is likely to provoke a
crash in the GC, since it makes it impossible for the collector to correctly track threads.

Watcom compiler

-----------------

Ivan V. Demakov's README for the Watcom port:

The collector has been compiled with Watcom C 10.6 and 11.0. It runs under win32, win32s, and even under msdos with dos4gw dos-extender. It should also run under OS/2, though this isn't tested. Under win32 the collector can be built either as dll or as static library.

Note that all compilations were done under Windows 95 or NT. For unknown reason compiling under Windows 3.11 for NT (one attempt has been made) leads to broken executables.

Incremental collection is not supported.

cord is not ported.

Before compiling you may need to edit WCC_MAKEFILE to set target platform, library type (dynamic or static), calling conventions, and optimization options.

To compile the collector and testing programs use the command:

```bash
wmake -f WCC_MAKEFILE
```

All programs using gc should be compiled with 4-byte alignment. For further explanations on this see comments about Borland.

If the gc is compiled as dll, the macro ``GC_DLL'' should be defined before including "gc.h" (for example, with -DGC_DLL compiler option). It's important, otherwise resulting programs will not run.

Ivan Demakov (email: ivan@tgrad.nsk.su)

Win32S

-----

[The following is probably obsolete. The win32s support is still in the collector, but I doubt anyone cares, or has tested it recently.]

The collector runs under both win32s and win32, but with different semantics. Under win32, all writable pages outside of the heaps and stack are scanned for roots. Thus the collector sees pointers in DLL data
segments. Under win32s, only the main data segment is scanned. (The main data segment should always be scanned. Under some versions of win32s, other regions may also be scanned.) Thus all accessible objects should be accessible from local variables or variables in the main data segment. Alternatively, other data segments (e.g. in DLLs) may be registered with the collector by calling GC_init() and then GC_register_root_section(a), where a is the address of some variable inside the data segment. (Duplicate registrations are ignored, but not terribly quickly.)

(There are two reasons for this. We didn't want to see many 16:16 pointers. And the VirtualQuery call has different semantics under the two systems, and under different versions of win32s.)

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ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09)

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lib/hcrypto/test_dh.c

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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 * Rob Earhart
 * Rob Siemborski
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/* CMU libtasl
* Tim Martin
* Rob Earhart
* Rob Siemborski
*/

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1.304 libseccomp2 2.4.1-0ubuntu0.16.04.2

1.305 libselinux1:amd64 2.4 :3build2

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1.306 libsemanage-common 2.3 :1build3

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1.307 libsemanage1:amd64 2.3 :1build3

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.309 libsepol1:amd64 2.4 :2

1.309.1 Available under license :

This is the Debian packe for libsepol, and it is built from sources
obtained from http://userspace.selinuxproject.org/releases/current/devel/

This package was debianized by Russell Coker <russell@coker.com.au> on
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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 2nd 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
2e1cee529cb59e9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
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<tr>
<td>a</td>
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<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
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<td>8M</td>
<td>unused</td>
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<td>d</td>
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<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>0</th>
<th>unused</th>
<th>5</th>
<th>4.1BSD</th>
<th>9</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
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<tr>
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<td>swap</td>
<td>6</td>
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<td>e</td>
<td>ADOS</td>
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<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
<td>HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
<td>10</td>
<td>AdvFS</td>
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<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Command (m for help):

**1.313 libsmi2ldbl 0.4.8+dfsg2 :11**

**1.313.1 Available under license:**

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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU’ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
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1.314 libsnmp-base 5.7.3+dfsg :1ubuntu4.4

1.314.1 Available under license:
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It is now maintained by Jochen Friedrich <jochen@scram.de>.
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Upstream-Name: Spatial4J
Source: https://github.com/locationtech/spatial4j

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1.317 libsqlite0 2.8.17 :12fakesync1
1.317.1 Available under license :

This package was debianized by Andreas Rottmann <rotty@debian.org> on
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It was downloaded from http://www.sqlite.org.

Upstream Author: D. Richard Hipp <drh@hwaci.com>

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1.318 libsqlite3-0:amd64 3.11.0 :1ubuntu1.2

1.318.1 Available under license:

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Upstream-Name: sqlite3
Source: http://www.sqlite.org/cgi/src/dir?ci=trunk

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Name (printed):

Body {
  margin: auto;
  font-family: Verdana, sans-serif;
  padding: 8px 1%;
}

A { color: #044a64 }
A:visited { color: #734559 }

.Logo { position:absolute; margin:3px; }
.Tagline {
  float:right;
  text-align:right;
  font-style:italic;
  width:300px;
  margin:12px;
  margin-top:58px;
}

.Menubar {
  clear: both;
  border-radius: 8px;
  background: #044a64;
  padding: 0px;
  margin: 0px;
  cell-spacing: 0px;
}

.Toolbar {
  text-align: center;
<div>Small. Fast. Reliable. Choose any three.</div>

<table width=100% class="menubar">
<tr>
<td width=100%>
<div class="toolbar">
<a href="about.html">About</a>
<a href="docs.html">Documentation</a>
<a href="download.html">Download</a>
<a href="copyright.html">License</a>
<a href="support.html">Support</a>
<a href="http://www.hwaci.com/sw/sqlite/prosupport.html">Purchase</a>
</div>
</td>
</tr>
</table>

<script>
var gMsg = "Search SQLite Docs...
function entersearch() {
  var q = document.getElementById("q");
  if( q.value == gMsg ) { q.value = "" }
  q.style.color = "black"
  q.style.fontStyle = "normal"
}

function leavesearch() {
  var q = document.getElementById("q");
  if( q.value == "" ) {
    q.value = gMsg
    q.style.color = "#044a64"
    q.style.fontStyle = "italic"
  }
}

function hideorshow(btn,obj){
  var x = document.getElementById(obj);
  var b = document.getElementById(btn);
  if( x.style.display!='none' ){
    x.style.display = 'none';
    b.innerHTML='show';
  }else{
    x.style.display = "";
    b.innerHTML='hide';
  }
  return false;
}

</script>
<form name=f method="GET" action="https://www.sqlite.org/search">
<input id=q name=q type=text onfocus="entersearch()" onblur="leavesearch()" style="width:24ex;padding:1px 1ex;border:solid white 1px;font-size:0.9em ;font-style:italic;color:#044a64;" value="Search SQLite Docs..."/>
</form>
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Upstream-Name: sqlite3
Source: http://www.sqlite.org/cgi/src/dir?ci=trunk
Files: *
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1.319 libss2:amd64 1.42.13 :1ubuntu1.1
1.319.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the new version (1.41.11) of the second extended file system management programs.

From time to time, I release new versions of e2fsprogs, to fix bugs and to make the utilities more robust. You can always find information about the latest version at the the e2fsprogs web page, which is:

http://e2fsprogs.sourceforge.net

The INSTALL file has instructions on building and installing e2fsprogs. Provisions for building Red Hat RPMs and Debian dpkg files are supplied as well.

In case of bugs in these programs, please contact Ted Ts'o at tytso@mit.edu or tytso@alum.mit.edu. See the e2fsck man page for suggestions of what sort of information to include when submitting bug reports for these programs.

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul 'Rusty' Russell 2000

 ** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
$(LN) $(BSD_LIB) ../$(BSD_LIB)

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \\ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Gadi Oxman, August 1995

---------------------------------------------------------------------------

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Version 2, June 1991

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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# This is a Makefile stub which handles the creation of BSD shared
# libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
/

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*/
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
- - Copyright (C) Andrew Tridgell 2005
+ - Copyright (C) Andrew Tridgell 1999-2005
+ + Copyright (C) Jeremy Allison 2000-2006
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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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Theodore Ts'o
23-June-2007

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creates an executable that is a derivative of the Library (because it
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Gadi Oxman, August 1995

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs-uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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*/

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
-
- Copyright (C) Andrew Tridgell              2005
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1.320 libssl1.0.0:amd64 1.0.2g :1ubuntu4.15
1.320.1 Available under license :

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) 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.

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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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Version 3.1, 31 March 2009

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<bridgehead xml:id="ConveyingNonSource" renderas="sect1">
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</bridgehead>
<para>
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sections 4 and 5, provided that you also convey the machine-readable
Corresponding Source under the terms of this License, in one of these ways:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
  <listitem>
    <para>
      Convey the object code in, or embodied in, a physical product (including
      a physical distribution medium), accompanied by the Corresponding Source
      fixed on a durable physical medium customarily used for software
      interchange.
    </para>
  </listitem>
  <listitem>
    <para>
      Convey the object code in, or embodied in, a physical product (including
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      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
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      price no more than your reasonable cost of physically performing this
      conveying of source, or (2) access to copy the Corresponding Source from
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    </para>
  </listitem>
  <listitem>
    <para>
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    </para>
  </listitem>
</orderedlist>
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</para>
</listitem>
</orderedlist>

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.
A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@end display

@appendixsubsec Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo

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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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The modified work must itself be a software library.

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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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.

@item
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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.

@item
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or 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.

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:

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

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

```
one line to give the library's name and an 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.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a `copyright disclaimer' for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
```
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    )
if os.path.exists (base + '.ac'):
    return True
if os.path.exists (base + '.in'):
    return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?\-0-9.,\s]\s*\s+\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '((C[lac]|C\s+\%!)[Cc]\s+\%!)[Cc]|'
            '([Cc]\s+\%!)[Cc]
            '||[Cc]\s+\%!([Cc])|'
            '||[Cc]\s+\%!@[Cc]|'
            '||[Cc]\s+\%!copy;'
            '||[Cc]\s+\%!copyright{ }'
            '||copyright = u"'
            '||@set\s+\!copyright\[w-]+')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(?s*(?:\s*\+ ranges + \+\+\+)?
  @value\{(\^[\(\] )*\})\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don’t allow multiple consecutive
# spaces, so that right-margin gloss doesn’t get caught
# (e.g. gnat_ugn.texi).
'(‘ + name + ‘(?:\s?’ + name + ‘)*’)?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
  re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to ‘quilt add’ files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ‘,’.
self.separator = ‘’

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find (‘’)
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (‘’), index + 1)

def add_external_author (self, holder):
  self.holders[holder] = None

class BadYear():
  def __init__ (self, year):
    self.year = year

  def __str__ (self):
def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)
    def year_range(self, years):
        year_list = [self.parse_year(year)
                     for year in self.year_re.findall(years)]
        assert len(year_list) > 0
        return (min(year_list), max(year_list))
    def set_use_quilt(self, use_quilt):
        self.use_quilt = use_quilt
    def include_year(self, year):
        assert not self.max_year
        self.max_year = year
    def canonicalise_years(self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith('@value'):
            return years
        (min_year, max_year) = self.year_range(years)
        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file(dir, filename):
            max_year = max(max_year, self.max_year)
        # Use a range.
        if min_year == max_year:
            return '%d' % min_year
        else:
            return '%d-%d' % (min_year, max_year)
    def strip_continuation(self, line):
        line = line.lstrip()
        match = self.comment_re.match(line)
        if match:
            line = line[match.end():].lstrip()
        return line
def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
             or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: '
                + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation (next_line)
                if not self.continuation_re.match (continuation):
                    break
                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + ' ' + continuation
                next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

            holder = match.group (4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author (dir, filename):
                assert holder not in self.holders
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start(2)]
            + ('' if intro.startswith('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end(2):])

    # Use the standard (C) form.
    if intro.endswith('right'):
        intro += ' (C)'
    elif intro.endswith('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start(1)] + intro + line[match.end(1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
                    lines.append(line)
                line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]
    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them', self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice', self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
i += 1
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + 'n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
elif arg in self.option_handlers:
    self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: '
                                   + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
        ])

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'.cc',
'.h',
'.hs',
'.f',
'.f90',
'.go',
'.inc',
'.java',
})

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([(
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([(
            # Imported from GLIBC.
            'soft-fp',
        )])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([(
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        )])
# Imported from upstream
'classpath',
'libltldl',
)

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

    def get_line_filter(self, self, dir, filename):
if filename == 'boost_concept_check.h':
    return re.compile ('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aggc@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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BCDgetClass():java/lang/Class;

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;
/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }
}
public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * @author Aaron M. Renn (arenn@urbanophile.com)
public abstract class Permission implements Guard, Serializable {
/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
* This method returns an empty `<code>PermissionCollection</code>` object that can store permissions of this type, or `<code>null</code>` if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate `<code>implies</code>`.

* @return a new `<code>PermissionCollection</code>`
*/

```java
class Permission
{
    public PermissionCollection newPermissionCollection()
    {
        return null;
    }
}
```

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
  /**
   * This method tests whether or not a specified <code>Permission</code>
   * (passed as an <code>Object</code>) is the same as this permission.
   *
   * @param perm The permission to check for equality
   */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

==============================================================================

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* m4/ax_func_gethostbyname_r.m4

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#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
 namespace acl
 {
  class Permission;
 }
 }
 }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
  static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
namespace javax
{

namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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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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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \

fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm " , (FILE)) ,
 assemble_name ((FILE), (NAME)) ,
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm " , (FILE)) ,
 assemble_name ((FILE), (NAME)) ,
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm " , (FILE)) ,
 assemble_name ((FILE), (NAME)) ,
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	\nif ((LOG)!=0) fprintf ((FILE), \t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	\nsprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltltoptions.m4',
            'lttsugar.m4',

')
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(\"t\")
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
return True
if os.path.exists (base + '.in'):
    return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
        
        # Characters in a range of years. Include '.' for typos.
        ranges = '
            [0-9][?[-0-9.,\s]\s+and\s\s+]*[0-9]'
        
        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'
        
        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
        
        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
        
        # Matches a full copyright notice:
        self.copyright_re = re.compile (self.year_re + self.copyright_re)
        
    # 1: 'Copyright (C)', etc.
        '[(Cc)opyright'
        '[(Cc)opyright\s+\{(Cc)\}]'
        '[(Cc)opyright\s+%s'
        '[(Cc)opyright\s+&copy;'
        '[(Cc)opyright\s+@copyright\{\}']
        'copyright = \s*'
        '[@set\s+copyright[\w-]+]'

    # 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(?:' + ranges + '|\s*\@value\{[^{}]*\})\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s*\+ name +(?:\s*\+ name +")?)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*\[0-9\]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright\.*\[0-9\][0-9]',
re.IGNORECASE)

self.comment_re = re.compile('#+|[*][*]|%;+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year
def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)
    def year_range(self, years):
        year_list = [self.parse_year(year)
                     for year in self.year_re.findall(years)]
        assert len(year_list) > 0
        return (min(year_list), max(year_list))
    def set_use_quilt(self, use_quilt):
        self.use_quilt = use_quilt
    def include_year(self, year):
        assert not self.max_year
        self.max_year = year
    def canonicalise_years(self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith('@value'):
            return years
        (min_year, max_year) = self.year_range(years)
        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file(dir, filename):
            max_year = max(max_year, self.max_year)
        # Use a range.
        if min_year == max_year:
            return '%d' % min_year
        else:
            return '%d-%d' % (min_year, max_year)
    def strip_continuation(self, line):
        line = line.lstrip()
        match = self.comment_re.match(line)
        if match:
            line = line[match.end():].lstrip()
        return line
    def is_complete(self, match):
holder = match.group (4)
return (holder
     and (holder not in self.holder_prefixes
          or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
               'trailing characters in @set:
              + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break

                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation (next_line)
                if not self.continuation_re.match (continuation):
                    break

                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + ' ' + continuation
                next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

            holder = match.group (4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author (dir, filename):
                assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'

    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
                    lines.append (line)
                    line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
    if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them",
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        for i in range (len (self.dirs)):
            sys.stdout.write (format % (self.dirs[i][0]))

    def __call__ (self, *args):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        for i in range (len (self.dirs)):
            sys.stdout.write (format % (self.dirs[i][0]))
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + 'n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-' :
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])}

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])

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def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])
# Imported from upstream
'classpath',
'libttdl',
])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
return re.compile(\('/\(C\) Copyright Jeremy Siek\)')
return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto')

class GCCCmdLine(CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)
self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdeccnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdeccnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

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.

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:

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.)

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.

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
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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
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@end enumerate

For an executable, the required form of the ``work that uses the
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reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
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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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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>

extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);

virtual void checkGuard(::java::lang::Object *);

virtual jboolean implies(::java::security::Permission *) = 0;

virtual jboolean equals(::java::lang::Object *) = 0;

virtual jint hashCode() = 0;
}
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;

};

#define __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated.

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
}__attribute__((java_interface));

#define __java_security_acl_Permission__

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Version 2, June 1991
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
/*
   public class CopyrightTaglet implements Taglet {

   private static final String NAME = "copyright";
   private static final String HEADER = "Copyright:";

   public String getName() {
      return NAME;
   }

   public boolean inField() {
      return true;
   }

   public boolean inConstructor() {
      return true;
   }

   public boolean inMethod() {
      return true;
   }

   public boolean inOverview() {
      return true;
   }

   public boolean inPackage() {
      return true;
   }

   public boolean inType() {
      return true;
   }

   public boolean isInlineTag() {
      return false;
   }

   public static void register(Map tagletMap) {
      CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
      tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
   }

   public String toString(Tag tag) {
      return toString(new Tag[] { tag });
   }

   public String toString(Tag[] tags) {

   
*/
if (tags.length == 0) {
    return null;
} else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }

    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>" + tags[i].text() + "</dt>");
            }
        result.append("</dl>");
        return result.toString();
    } else { return null; }
}
}

If+gnu/classpath/tools/taglets/CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;tagletMapLjava/util/Map;copyrightTagletToString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
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package java.security;
import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
* Create an instance with the specified name.
* 
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * 
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * 
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
/*
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>(" + getClass().getName() + "," + getName() + "," + getActions
 * + ")</code>.
 *
 * @return this object as a <code>String</code>
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('"');
    string = string.append(getClass().getName());
    string = string.append('"');
    string = string.append('"');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append('"');
        string = string.append(getActions());
    }

    string = string.append('"');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
  /**
   * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
   *
   * @param perm The permission to check for equality
   *
   * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
   */
  boolean equals (Object perm);

  /**
   * This method returns this <code>Permission</code> as a <code>String</code>.  
   *
   * @return A <code>String</code> representing this permission.
   */
  String toString();
}

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1998-05-11

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*m4/ax_func_which_gethostname_r.m4*

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checkGuard(Ljava/lang/Object;)V
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#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
  namespace gnu
  {
    namespace javax
    {
      namespace sound
      {
        class AudioSecurityManager$Permission;
      }
    }
  }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

  AudioSecurityManager$Permission(::java::lang::String *, jint);
  public:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
  static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
  static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
  public:
  static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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```
.ie \nF \{
    de IX
    tm Index:\$1\n\n%  "\$2"
    nr % 0
    rr F
}
.ie \{
    de IX
..}
```

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

```
.fudge factors for nroff and troff
.if n \{
    ds #H 0
    ds #V .8m
    ds #F .3m
    ds #[ \f1
    ds #] \fP
}
.if t \{
    ds #H ((1-u-(\n(.fu%2u))*.13m)
    ds #V .6m
    ds #F 0
    ds #[ \&
    ds #] \&
```

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```
.if n \{
    ds \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
```
```
.if t \{
    ds \k:\h'-(\n(.wu*8/10-\*(#H)\"\n\n:u"
    ds ` \k:\h'-(\n(.wu*8/10-\*(#H)\"\n\n:u'
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".comm \", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".lcomm \", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   ( fputs (".lcomm \", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ALIGNMENT))
#endif
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\
   if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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list meets this criterion.
</para>
</bridgehead>
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<para>
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</para>
<para>
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  </listitem>
  <listitem>
    <para>
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<bridgehead xml:id="ConveyingNonSource" renderas="sect1">
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</bridgehead>

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Corresponding Source under the terms of this License, in one of these ways:
</para>

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      Convey the object code in, or embodied in, a physical product (including
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      fixed on a durable physical medium customarily used for software
      interchange.
    </para>
  </listitem>
  <listitem>
    <para>
      Convey the object code in, or embodied in, a physical product (including
      a physical distribution medium), accompanied by a written offer, valid
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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.
</para>
</listitem>
</listitem>
<para>
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.
</para>
</listitem>
</listitem>
<para>
Convey the object code by offering access from a designated place
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Corresponding Source in the same way through the same place at no
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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.
</para>
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</unorderedlist>
<para>
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the Corresponding Source as a System Library, need not be included in
conveying the object code work.
</para>
</para>
</para>
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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Files: alocal.m4 package
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html
Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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Files: aclocal.m4 package
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On Debian systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL-2

-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: *
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Files: aclocal.m4 package
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Files: doc/html/NCURSES-Programming-HOWTO.html
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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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**1.328 libtsan0 5.4.0 :6ubuntu1~16.04.11**

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```

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Version 3.1, 31 March 2009

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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            pass

            def__init__(self):
                self.num_errors = 0

                def report(self, filename, string):
                    if filename:
string = filename + ": " + string
sys.stderr.write (string + \"\n\")
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set [
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltmain.m4',
            'ltoptions.m4',
            'ltversion.m4',
            'lt-safe.m4',
            'ltobsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
            'uuid.db'
        ]
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    )
if filename in self.fossilised_files:
    return True

# Only touch current ChangeLogs.
if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
    return True
return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]+([-0-9,.\s]+)*[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w,.\-\s'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'
            # 1: 'Copyright (C)', etc.
            ([Cc]opyright')
            
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            (\s*(:? + ranges + '.?')
             |[@value\([\^{}]*\)]\s*)

            # 3: 'by ', if used
            (by\s+)?'

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
Open Source Used In Ultra Services Platform Version 6.10

 '(' + name + '('?\As?' + name + ')\)*'?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn’t look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + '' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report(pathname,
                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
class CmdLine:
    def __init__(self, copyright=Copyright):  
        self.errors = Errors()  
        self.copyright = copyright(self.errors)  
        self.dirs = []  
        self.default_dirs = []  
        self.chosen_dirs = []  
        self.option_handlers = dict()  
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)  
        self.add_option('--quilt', '"quilt add" files before changing them',  
                        self.o_quilt)  
        self.add_option('--this-year', 'Add the current year to every notice',  
                        self.o_this_year)  

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))  
        self.optionHandlers[name] = handler

    def add_dir(self, dir, filter=GenericFilter()):  
        self.dirs.append((dir, filter))

    def o_help(self, option=None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
        sys.stdout.write('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len(self.dirs):
                sys.stdout.write(dir + '\n')
            else:
                sys.stdout.write(format % dir)
        sys.exit(0)

    def o_quilt(self, option):
        self.copyright.set_use_quilt(True)

    def o_this_year(self, option):

else:
    self.process_file(dir, filename, filter)
self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                       + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#-------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.F90',
        '.go',
        '.inc',
        '.java',
    ])

    def skip_file(self, dir, filename):
        
        def skip_file(self, dir, filename):
# g++.niklas/README contains historical copyright information
# and isn't updated.
if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Stephen L Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
             TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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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.

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.

As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate
@item Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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.

@item
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@end enumerate

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@ifex
@end iftex
@ifinfo
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@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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Version 2.1, February 1999

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The "Library", below, refers to any such software library or work
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on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
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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.

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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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *);
  virtual jboolean implies(::java::security::Permission *) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
  virtual ::java::lang::String * getName();
  virtual ::java::lang::String * getActions() = 0;
  virtual ::java::security::PermissionCollection * newPermissionCollection();
  virtual ::java::lang::String * toString();

private:
  static const jlong serialVersionUID = -5636570222231596674LL;
class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;

} __attribute__ ((java_interface));

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>

extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

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    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";
public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[]{ tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            haveValidTag = haveValidTag || tags[i].isInlineTag();
        }
        return haveValidTag ? tags[0].toString() : null;
    }
}
if (tags[i].text().length() > 0) {
    haveValidTag = true;
}
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright ©" + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}
/* Permission.java -- The superclass for all permission objects

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exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
This class is the abstract superclass of all classes that implement
the concept of a permission. A permission consists of a permission name
and optionally a list of actions that relate to the permission. The
actual meaning of the name of the permission is defined only in the
context of a subclass. It may name a resource to which access permissions
are granted (for example, the name of a file) or it might represent
something else entirely. Similarly, the action list only has meaning
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is <code>implies</code>. This
checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

<code>Permission</code>'s must be immutable - do not change their
state after creation.

@author Aaron M. Renn (arenn@urbanophile.com)
@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

public abstract class Permission implements Guard, Serializable
{
 /**
  * Compatible with JDK 1.1+
  */
 private static final long serialVersionUID = -563657022231596674L;

 /**
  * This is the name assigned to this permission object.
  *
  * @serial the name of the permission
  */
 private String name;

 /**
  * Create an instance with the specified name.
  *
  * @param name the permission name
  */
 public Permission(String name)
 {

public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) {
        sm.checkPermission(this);
    }
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 * @return true if perm is implied by this
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"((' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + '))"</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    }
}
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!getActions().equals(''))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
 boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
 String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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\verbatim
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java/security/Permission
java/lang/Object
java/security/Guard
java/io/Serializable
serialVersionUID

ConstantValue?
WQ~
java/lang/String;
<init>(Ljava/lang/String;)
V

Code()

V

LineNumberTable
LocalVariableTable
this
java/security/Permission;
checkGuard(Ljava/lang/Object;)
V

! java/lang/System
"#getSecurityManager()
java/lang/SecurityManager;
%
&
java/lang/SecurityManager()
checkPermission(java/security/Permission;)

Vobj
java/lang/Object;

sm
java/lang/
SecurityManager;
implies(Ljava/security/Permission;)
Z

equals(Ljava/lang/Object;)
Z

hashCode()
I

getName()Ljava/lang/String;

getActions
new
PermissionCollection&()

Ljava/security/PermissionCollection;
toString;gnu/java/lang/CPStringBuilder;

c

r

.:?
append"(C)L

gnu/java/lang/CPStringBuilder;

BCD
getClass()Ljava/lang/Class;

FHG
java/lang/Class45

J

K3(Ljava/lang/String;)

gnu/java/lang/CPStringBuilder;

H

N65P

RTS
java/lang/String01

.:V95
string

L

gnu/java/lang/CPStringBuilder;

SourceFilePermission.java!

F

\end{verbatim}
\end{verbatim}

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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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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35@

// DO NOT EDIT THIS FILE - it is machine generated -*-. c++ -*.-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
static ::java::lang::Class class$;
Jan 21, 2002

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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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derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice

That's all there is to it!
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
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlef (detlef@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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@settittle GNU General Public License
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c man end
c end ignore
c node Copying
c man begin DESCRIPTION
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@enumerate 0
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@enumerate
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@end group
@end example

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with...Texts.'' line with this:

@example
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end example

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

@c man end
Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)

Standard preamble:

=======================================================================

Subsection heading

Vertical space (when we can't use .PP)

Begin verbatim text

Begin verbatim text

Set up some character translations and predefined strings. \*(- will
give an unbreakable dash, \**(PI will give pi, \*(L" will give a left
double quote, and \*(R" will give a right double quote. \*(C+ will
give a nicer C++. Capital omega is used to do unbreakable dashes and
therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
nothing in troff, for use with C<>.

Character translations:

```
.tr \(*W-
.ds C+ C\{v-.1v\h'-1p\s-2+\h'-1p'+\s0/v'.1v\h'-1p'
.ie n \{
 . ds -- \(*W-
 . ds PI pi
 . if (\n(H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u\h' \" diablo 10 pitch
 . if (\n(H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-8u\h'- \" diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C' "
抛弃
.br
.ie \{
 . ds -- \(em\}
 . ds PI \"p
 . ds L" "
 . ds R" 
```
'br\}
\l^ Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \aq
.el .ds Aq '
\l^''
\l^'' If the F register is turned on, we'll generate index entries on stderr for
\l^'' titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
\l^'' entries marked with X<> in POD. Of course, you'll have to process the
\l^'' output yourself in some meaningful fashion.
.ie \nF \n
  . de IX
  . tm Index:\$1\t\n%	"\$2"
  ..
  . nr % 0
  . rr F
\l]
.el \n
  . de IX
  ..
\l]
\l^''
\l^'' Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\l^'' Fear. Run. Save yourself. No user-serviceable parts.
  \l'' fudge factors for nroff and troff
.if n \n
  . ds #H 0
  . ds #V .8m
  . ds #F .3m
  . ds #[ \f1
  . ds #] \fP
\l]
.if t \n
  . ds #H ((1u-(\n(.fu%2u))*.13m)
  . ds #V .6m
  . ds #F 0
  . ds #[ \&
  . ds #] \&
\l]
  \l'' simple accents for nroff and troff
.if n \n
  . ds `\&
  . ds `\&
  . ds ^ \&
  . ds , \&
  . ds ~ ~
  . ds /
\l]
IX Title "GPL 7"
.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"

For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.

.SH "NAME"

gpl - GNU General Public License

.SH "DESCRIPTION"

"xs-1GNUxs0 General Public License"
IX Subsection "GNU General Public License"

Sh "Version 3, 29 June 2007"

IX Subsection "Version 3, 29 June 2007"

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) ( fputs (".comm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) ( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) ( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG) if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Ty Coon, President of Vice

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* m4/ax_func_which_gethostbyname_r.m4

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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltzlib.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
return True
if os.path.exists (base + '.in'):
    return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9]+([-0-9.,\s]+and[\s]+)*[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w,.-'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\w,-']

        # Matches a full copyright notice:
        self.copyright_re = re.compile ('
            \([Cc]\)opyright\s+\([Cc]\)opyright\s+%s\n            \([Cc]\)opyright\s+\&copy;\n            \([Cc]\)opyright\s+\@copyright\ \}{
            \[copyright = \u"\n            \[@set\s+copyright\[\w-]+\]'

        # 2: the years.  Include the whitespace in the year, so that
# we can remove any excess.
'(\s*:\s* + ranges + :?\n
'|@value\{[^{}]*\}\s*)'

# 3: 'by ', if used
'(by\s+)''

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\ + name + (?:\s? + name + *)\n
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
   re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = [ '@copying': '@copying' ]
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
   if not canon_form:
      canon_form = holder
   self.holders[holder] = canon_form
   index = holder.find ('')
   while index >= 0:
      self.holder_prefixes.add (holder[:index])
      index = holder.find ('', index + 1)

def add_external_author (self, holder):
   self.holders[holder] = None

class BadYear():
   def __init__ (self, year):
      self.year = year

   def __str__ (self):
      return 'unrecognised year: ' + self.year
def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
holder = match.group(4)
return (holder
    and (holder not in self.holder_prefixes
         or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start(2)]
            + ('' if intro.startswith('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end(2):])

    # Use the standard (C) form.
    if intro.endswith('right'):
        intro += ' (C)'
    elif intro.endswith('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start(1)] + intro + line[match.end(1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp '):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                    line = next_line

                # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
            if self.use_quilt:
                subprocess.call ([ 'quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange(len(subdirs) - 1, -1, -1):
    if filter.skip_dir(dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file(dir, filename):
        sys.stdout.write('Skipping %s\n'
                          % os.path.join(dir, filename))
    else:
        self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter = GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option = None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...\n
Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
        sys.stdout.write('Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            sys.stdout.write(format % dir)
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + 'n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
           .po',
            # Automatically-generated.
           .pot',
        '])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            soft-fp',
        '])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            testsuite',
            # Not really part of the library
            contrib',
        '])
# Imported from upstream
'classpath',
'libltdl',
])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnatools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCmdLine().main()

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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(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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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
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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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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  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.)

- 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.

- 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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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

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Library` must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public java::lang::Object
{

public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
    __attribute__((java_interface));

#endif // __java_security_acl_Permission__

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
/*
 * public class CopyrightTaglet implements Taglet {

   private static final String NAME = "copyright";
   private static final String HEADER = "Copyright:";

   public String getName() {
       return NAME;
   }

   public boolean inField() {
       return true;
   }

   public boolean inConstructor() {
       return true;
   }

   public boolean inMethod() {
       return true;
   }

   public boolean inOverview() {
       return true;
   }

   public boolean inPackage() {
       return true;
   }

   public boolean inType() {
       return true;
   }

   public boolean isInlineTag() {
       return false;
   }

   public static void register(Map tagletMap) {
       CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
       tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
   }

   public String toString(Tag tag) {
       return toString(new Tag[] { tag });
   }

   public String toString(Tag[] tags) {

if (tags.length == 0) {
    return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
            }
        }
        result.append("</dl>");
        return result.toString();
    }
    else {
        return null;
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin

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Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
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tagletMapLjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
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package java.security;

/* Permission.java -- The superclass for all permission objects

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import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *<p>The most important method in this class is <code>implies</code>. This
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 * *@see Permissions
 * *@see PermissionCollection
 * *@since 1.1
 * *@status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

    /**
     * Compatible with JDK 1.1+
     */

    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     */

    private String name;
/**
 * Create an instance with the specified name.
 */

public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */

public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */

public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */

public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*  
* @return a hash value
*/
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
*/
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals('')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * 
 * @param perm The permission to check for equality
 * 
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * 
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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David Megginson, sax@megginson.com
1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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1|java/security/Permission|java/lang/Object|java/security/Guard|java/io/Serializable|serialVersionUID|
ConstantValue?(WQ~name|java/lang/String;)<init>(Ljava/lang/String;)V
Code
()V
LineNumberTable|LocalVariableTable|this|Ljava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager().Ljava/lang/SecurityManager;
 pct&|java/lang/SecurityManager().checkPermission(Ljava/security/Permission;)V
obj|Ljava/lang/Object;|sm|Ljava/lang/SecurityManager;
implies(Ljava/security/Permission;)V
equals(Ljava/lang/Object;)Z
hashCode()I
getName()Ljava/lang/String;
getActions|newPermissionCollection&()Ljava/security/PermissionCollection;toString();gnu/java/lang/CPStringBuilder;
:l
-<@append"(C)Lgnu/java/lang/CPStringBuilder;
BCD getClass()Ljava/lang/Class;
FHG java/lang/Class45
:J?K3(Ljava/lang/String;)|Lgnu/java/lang/CPStringBuilder;
H
N65P
RTS java/lang/String01
:V95 string|Lgnu/java/lang/CPStringBuilder;
F
"**+[[]]^XM.,*$nop
q **+
 .-012345/*6578,95S:Y<L+(=L+A+*AEIL+=L+*AIL.*MOQ+=L+*AII+=L+U+* 
"+7>GNSKWXYZ
1 java/security/acl/Permission|java/lang/Object;equals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
SourceFilePermission.java
16|gnu/java/lang/EnumPLAY1Lgnu/java/lang/Enum;
RECORDALLENUM$VALUES2[Lgnu/java/lang/Enum;
AudioSecurityManager$Permission;<cinit>()V
<init>(Ljava/lang/String;I)V
LineNumberTable|LocalVariableTable|this|values4()Lgnu/java/lang/Enum;AudioSecurityManager$Permission;
$&|java/lang/System'( arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/lang/Enum;AudioSecurityManager$Permission;
-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
Signature|CLjava/lang/Enum<Lgnu/java/lang/Enum;>;InnerClasses4$gnu/java/lang/Enum;
Permission@1@@@

eAYYYYSYSYS
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
	AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and
Dave Detlfs(detlfs@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
typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
\" Standard preamble:
\="/**********************************************************************/
Set up some character translations and predefined strings. \(--\) will give an unbreakable dash, \(*PI\) will give \(\pi\), \(*L"\) will give a left double quote, and \(*R"\) will give a right double quote. \(*C+\) will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \(*C'\) and \(*C\) expand to ` in nroff, nothing in troff, for use with C<>.

```
\tr\(*W-\)
.ds C+ C\v'-1v\h'-1p's-2+h\h'-1p'+s0v\v\h'-1p'
.ie n {\n    ds -- \(*W-
    ds PI pi
    if \(\!n\!(.H=4u)\&(1m=24u)\) .ds -- \(*W\v\h'-12u\)(*W\h'-12u'\h'-1p'+s0v\v\h'-1p'
    if \(\!n\!(.H=4u)\&(1m=20u)\) .ds -- \(*W\v\h'-12u\)(*W\h'-8u'\v\h'-1p'
    ds L" "
    ds R" "
    ds C' "
    ds C "
    \br\}
\el{\n    ds -- \!\!(em)\]
    ds PI \(*p
    ds L" "
    ds R" "
    \br\}
```

\n\nEscape single quotes in literal strings from groff's Unicode transform.

```
.ie \!n(.g ,ds Aq \!aq
```
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" simple accents for nroff and troff

simple accents for nroff and troff

open source used in ultra services platform version 6.10

V' troff and (daisy-wheel) nroff accents

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.`s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) /*

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf (FILE, "t.space "HOST_WIDE_INT_PRINT_UNSIGNED"
", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
( fputs (".comm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#endif
/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=(0) fprintf ((FILE), "\t.align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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### 1.329 libubsan0 5.4.0 :6ubuntu1~16.04.11

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#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '
')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ("
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltversions.m4',
            'ltobsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
        "
    ")
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):

```python
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
```
return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][\-0-9,.\s]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w+-'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile('
            \s*(?:' + ranges + ',)?
            \s*@value\{[^}\]*\}\s*'
            '\s*(\s+and\s+)*
            \s+by\s+)?'

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\s*\?\s+\?\s+\)\s*'
            '\s+copy\s+\)\s*'

            # 3: 'by ', if used
            '\(by\s+\)'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'( + name + (\?\s* + name + + )*?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.'
self.separator = '.

def add_package_author (self, holder, canon_form = None):
if not canon_form:
    canon_form = holder
self.holders[holder] = canon_form
index = holder.find (' ')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
             and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != '\n' :
        self.errors.report (pathname,
                        'trailing characters in @set:'
                           + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname,
                           'unrecognised copyright holder: ' + holder)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (["quilt", 'add', pathname])
                os.rename (tmp_pathname, pathname)

        def process_tree (self, tree, filter):
            for (dir, subdirs, filenames) in os.walk (tree):
                # Don't recurse through directories that should be skipped.
                for i in xrange (len (subdirs) - 1, -1, -1):
                    if filter.skip_dir (dir, subdirs[i]):
                        del subdirs[i]

                # Handle the files in this directory.
                for filename in filenames:
if filter.skip_file (dir, filename):
    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                    self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' +
                        chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                if file.readline().find ('gettext-') >= 0:
                    return True
return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

        # Handled separately.
        'testsuite',

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

        self.skip_files |= set ([
            # Not part of GCC
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            '.go',
            '.inc',
            '.java',
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            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

        # Handled separately.
        'testsuite',

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
return re.compile ('.*NAME_COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regens of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('./', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcxx', LibCppFilter())
self.add_dir('libdecmath')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcxx',
    'libdecmath',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 2, June 1991

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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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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- 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.)

- 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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- If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in
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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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;

}
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:
static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{

class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__((java_interface));

#endif // __java_security_acl_Permission__

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exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return STRING; // Handle empty array
        }
    }
}
return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}
SourceFileCopyrightTaglet.java!

/*1-
7.:?,C.G.K.O!.$"QYSL*+%=WWXY.-
/01A
*2Y+S4\n
7806)+=>+29<=+._BYDN-EGW67+29<%-KYMO+29RURWGW+-YGW-{[F`adefge+k/l7m>nDoSpunstw>\]_`a7TbcA`}ade
/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *<p>
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     */


* * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"{ + getClass().getName() + " " + getName() + " " + getActions
 * + "}"</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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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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That's all there is to it!
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString(Ljava/lang/String;)
SourceFilePermission.java
16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javax/sound/AudioSecurityMa
nager$Permission;RECORDALLENVALUES2[Lgnu/javax/sound/AudioSecurityManager$Permission;<clinit
>(VCode
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues4)[Lgnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurit


eyManager$Permission;
L(java/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu(javax/sound/AudioSecurityManager$Permission;>InnerClasses4gnu(javax/sound/AudioSecurityManager
Permission@1@@@

eAYYYYSYSYS
GE
1*+E!"35@

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{

class AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
}
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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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.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the
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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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Ty Coon, President of Vice

That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mitiae.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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@heading TERMS AND CONDITIONS

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output, -- RMS
#define ASM_OUTPUT SOURCE_FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
    that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
   to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".comm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".lcomm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   ( fputs (".lcomm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
    that says to advance the location counter
    to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
   if ((LOG)!=0) fprintf ((FILE), \t\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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* m4/ax_func_which_gethostbyname_r.m4

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# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ':' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
        ])


'install-sh',
'libtool.m4',
'ltmain.sh',
'lt_options.m4',
'lt_sugar.m4',
'lt_version.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'^$')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9][?[-0-9.,\s]]\s+and\s+)*[0-9-]

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\w+|')

        # Matches a full copyright notice:
        self.copyright_re = re.compile (\n            # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright\[Cc\]opyright\[Cc\]opyright\s+\(')[Cc\]opyright\[Cc\]opyright\[Cc\]opyright\s+\(')
            # Matches part of a year or copyright holder.
            self.continuation_re = re.compile (ranges + '|\w+|')

            # Matches a full copyright notice:
            self.copyright_re = re.compile (\n                # 1: 'Copyright (C)', etc.
                '(\[Cc\]opyright\[Cc\]opyright\[Cc\]opyright\s+\(')
            # Matches part of a year or copyright holder.
            self.continuation_re = re.compile (ranges + '|\w+|')

            # Matches a full copyright notice:
            self.copyright_re = re.compile (\n                # 1: 'Copyright (C)', etc.
                '(\[Cc\]opyright\[Cc\]opyright\[Cc\]opyright\s+\(')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*\)? + ranges + \)?
'[@value\{[^{}]*\})s*]

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + name + '(?As?' + name + '+))*')?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+|%+//+@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ',

def add_package_author(self, holder, canon_form = None):
if not canon_form:
    canon_form = holder
self.holders[holder] = canon_form
index = holder.find (')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (',', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
def __init__ (self, year):
    self.year = year

def __str__ (self):
    return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
if match:
    line = line[match.end():].lstrip()
return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                      'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]
# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write(line)
                    if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ("nDirectories:n"

        def o_help (self, option = None):
            sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
            format = '%-15s %s\n'
            for (what, help) in self.option_help:
                sys.stdout.write (format % (what, help))
            sys.stdout.write ("nDirectories:n"
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len(self.dirs):
        sys.stdout.write (dir + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)

#______________________________________________________________________________

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True
class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
        pathname = os.path.join (dir, filename)
        with open (pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find ('gettext-') >= 0:
                return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ()
        # Not part of GCC
        'math-68881.h',
    )

        self.skip_dirs |= set ()
        # Better not create a merge nightmare for the GNAT folks.
        'ada',
            # Handled separately.
            'testsuite',
    )

        self.skip_extensions |= set ()
        # Maintained by the translation project.
        '.',
        # Automatically-generated.
        '.',
    )

        self.fossilised_files |= set ()
        # Old news won't be updated.
        'ONEWS',
    )

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set([
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
'testsuite',

# Not really part of the library 'contrib',

# Imported from upstream 'classpath',
'libltdl',
})

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
        )


```python
'device.xml',
}

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon fsf)
        self.add_package_author('Free Software Foundation.', canon fsf)
        self.add_package_author('Free Software Foundation Inc.', canon fsf)
        self.add_package_author('Free Software Foundation, Inc', canon fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon fsf)
        self.add_package_author('The Free Software Foundation', canon fsf)
        self.add_package_author('The Free Software Foundation, Inc', canon fsf)
        self.add_package_author('Software Foundation, Inc.', canon fsf)

        self.add_package_author('ARM')
        self.add_package_author('AdaCore')
        self.add_package_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_package_author('Cavium Networks.')
        self.add_package_author('Faraday Technology Corp.')
        self.add_package_author('Florida State University')
        self.add_package_author('Greg Colvin and Beman Dawes.')
        self.add_package_author('Hewlett-Packard Company')
        self.add_package_author('Information Technology Industry Council.')
        self.add_package_author('James Theiler, Brian Gough')
        self.add_package_author('Makoto Matsumoto and Takui Nishimura')
        self.add_package_author('National Research Council of Canada.')
        self.add_package_author('Peter Dimov and Multi Media Ltd.')
        self.add_package_author('Peter Dimov')
        self.add_package_author('Pipeline Associates, Inc.')
        self.add_package_author('Regents of the University of California.')
        self.add_package_author('Silicon Graphics Computer Systems, Inc.')
        self.add_package_author('Silicon Graphics')
        self.add_package_author('Stephen L. Moshier')
        self.add_package_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_package_author('The Go Authors. All rights reserved.')
        self.add_package_author('The Go Authors.')
        self.add_package_author('The Regents of the University of California.')
        self.add_package_author('Unicode, Inc.')
        self.add_package_author('University of Toronto.')
```

Open Source Used In Ultra Services Platform Version 6.10
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'),
                        TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir (os.path.join ('libstdc++-v3', LibStdCxxFilter()))
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libmudflap',
            'libobjc',
            'libquadmath',
            'libsanitiser',
            'libssp',
            'libstdc++-v3',
            'lto-plugin',
            'zlib',
            ]
GCCCmdLine().main()

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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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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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subsequent copies and derivative works made from that copy.

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the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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:

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.)

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.

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@enumerate a
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@page
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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.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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.

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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
    namespace security
    {
      class Permission;
      class PermissionCollection;
    }
    }
    }
    }
    }

    class java::security::Permission : public ::java::lang::Object
    {
    public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
  public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
  } __attribute__((java_interface));
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Version 2, June 1991

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import java.util.Map;

import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
}
public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>\n                \
            } result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin

f ConstantValue	copyrightHEADER
Copyright:<init>()VCode
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inConstructorinMethod
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java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTagletToString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
g 506*(!Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?java/lang/String@ALength()ICjava/lang/StringBuffer
Permission.java -- The superclass for all permission objects


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text

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 */
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in 
* <code>SecurityManager</code> with this <code>Permission</code> as its 
* argument. This method returns silently if the security check succeeds 
* or throws an exception if it fails.
*
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the 
* specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather 
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
* `<code>Permission</code>` object. This is in the format:
* `<code> Garrison string = new CPStringBuilder();

string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');  
string = string.append(getName());

if (!(getActions().equals("")))
{
    string = string.append(' ');  
    string = string.append(getActions());
}

string = string.append(')');  
return string.toString();
}
// class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
 boolean equals (Object perm);

 /**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
 String toString();
}

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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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1Ljava/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;)<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%!java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VObjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/
String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder
:
:><?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass(Ljava/lang/Class);
FHGjava/lang/Class45
:JK3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
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q **+<012345/*6578.9S:Y<+(=L+*AEIL.+ =L+*LIL.+MOQ+ =L+*MIL+)=L+U*
"+?>GNSKWXYZ
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/javasound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javasound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[Lgnu/javasound/AudioSecurityManager$Permission;<clinit
>()VCode
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues40[Lgnu/javasound/AudioSecurityManager$Permission;
S$&%java/lang/System"(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javasound/AudioSecurit
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6YK*Y<YM#,)*
*
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35@

// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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will operate properly with a modified version of the library, if
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That's all there is to it!
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 (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.mit.edu), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) ) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dossler 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.)
@end ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end ignore
@c This file is intended to be included in another file.

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.\ds -- \(*W-

.\ds PI pi

.\ds -- \(*W\h`-12u`\v/\lh`-12u`\v/\s0\v`.1v\lh`-1p`

.\ie n\{

.\ds PI pi

.\ds -- \(*W`\h`-12u`\v/\lh`-12u`\v/\s0\v`.1v\lh`-1p`

.\ds L``

.\ds R``

.\ds C``

.\ds C``

'br\}

.\el\{

.\ds -- \{|(em|]

.\ds PI \*p

.\ds L`
Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(._ds Aq \a
.el .ds Aq '
.ie \nIf the F register is turned on, we'll generate index entries on stderr for
\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n[36x48]Open Source Used In Ultra Services Platform Version 6.10

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `..'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) /*

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space %u\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \ 
  fprintf ((FILE), ",\%u\n", (int)(ROUNDED))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ 
  fprintf ((FILE), ",\%u\n", (int)(ROUNDED))
ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
   if ((LOG)!=0) fprintf ((FILE), ".align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1.31 March 2009

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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
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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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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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"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.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Initialize empty image
f1c9645d8c14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2cf9 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
ada64ace122978d001d1c0e5ee45d26 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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe 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 8C FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 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

Slice Start End Sectors Size Type Fsize Bsize Cpg
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

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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Public License instead of this License.
Initialize empty image
f1c9645dbbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067e18f2cf9 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
2d8e8dff51a88a045db233418dd73fbd 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
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
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<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.
Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

Command (m for help):

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Version 2.1, February 1999

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DAMAGE.

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
ada6ace122978d00d1d1c0e5ee45d26 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 2nd primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73f8e 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
2e1cee529cb59e9341afe0443f196a1 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

<table>
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<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
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<tbody>
<tr>
<td>c</td>
<td>4096</td>
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<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------

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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
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<th>Bsize</th>
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</thead>
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<td>6144</td>
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<td>1M</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>c</td>
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<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>unused</td>
<td>5</td>
<td>4.1BSD</td>
</tr>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
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<td>System V</td>
<td>9</td>
<td>4.4LFS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>d boot</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>e ADOS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>f HFS</td>
</tr>
<tr>
<td>10</td>
<td>AdvFS</td>
<td>11</td>
<td>ISO-9660</td>
</tr>
</tbody>
</table>

Command (m for help):

1.335 libwind0-heimdal:amd64
1.7~git20150920+dfsg :4ubuntu1.16.04.1
1.335.1 Available under license:

---

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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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1.336 libwrap0 7.6.q-25

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1.339 libxau6:amd64 1:1.0.8 :1

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1.342 libxext6:amd64 2:1.3.3 :1

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1.343 libxi6:amd64 2:1.7.6 :1

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1.345 libxmlsec1 1.2.20 :2ubuntu4

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

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1.346 libxmlsec1-openssl 1.2.20 :2ubuntu4
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1.347 libxmluu1:amd64 2:1.1.2 :2
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2001-12-12

from http://junit.org/

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{
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           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
}
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```

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 * 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
 * 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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+ many more (please mail me if you are missing in this list and would
like to be mentioned)

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

#endif
```

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver
Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

FlashPoint Driver Developer's Kit
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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EXHIBIT A

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

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TechnoTrend/Hauppauge DEC driver firmware

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Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.
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preserving your freedom as a user of such programs to change the free
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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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single nxt200x frontend driver.

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           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
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}
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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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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package exists to take the signed version of the kernel binaries
and insert them into packages.  The source is as per the source for
the main kernel package.

This is the Ubuntu prepackaged version of the Linux kernel.
Linux was written by Linus Torvalds <Linus.Torvalds@cs.Helsinki.FI>
and others.

This package was put together by the Ubuntu Kernel Team, from
sources retrieved from upstream linux git.
The sources may be found at most Linux ftp sites, including

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its purpose remains meaningful.

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6. As an exception to the Sections above, you may also compile or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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This package was put together by the Ubuntu Kernel Team, from sources retrieved from upstream linux git.

The sources may be found at most Linux ftp sites, including ftp://ftp.kernel.org/pub/linux/kernel/

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This package was maintained by Herbert Xu <herbert@gondor.apana.org.au> from March 1997 to May 2004.

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 * 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
* 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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/* 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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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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single nxt200x frontend driver.

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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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That's all there is to it!
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#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
         || strcmp(license, "GPL v2") == 0
         || strcmp(license, "GPL and additional rights") == 0
         || strcmp(license, "Dual BSD/GPL") == 0
         || strcmp(license, "Dual MIT/GPL") == 0
         || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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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.
[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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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}

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Contributors
============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- for the nxt2004 frontend driver

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This package exists to take the signed version of the kernel binaries and insert them into packages. The source is as per the source for the main kernel package.

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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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/* 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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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}
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============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
* /
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            || strcmp(license, "GPL and additional rights") == 0
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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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
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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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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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for the IR code for the ttusb-dec driver

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Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

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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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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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/* 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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Author: Adam Conrad <adconrad@ubuntu.com>

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+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) 
   & & !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
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1.364 Isb-base 9.20160110ubuntu0.2

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1.366 make 4.1 :6

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1.369 manpages-dev 4.04 :2
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#!/usr/bin/python3
#
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#
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#
import re
import sys
import textwrap
from pathlib import Path

# The standard short names in Debian are defined here:
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

license_information = [
    {'shortname': 'BSD-3-clause',
     'filename': 'BSD-3-clause-UCB',
     'upstream_names': ['BSD_3_CLAUSE_UCB'],
    },
    {'shortname': 'BSD-4-clause',
     'filename': 'BSD-4-clause-UCB',
     'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
    },
    {'shortname': 'Expat',
     'filename': 'Expat',
     'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
    },
    {'shortname': 'freely-redistributable',
     'filename': 'freely-redistributable',
     'upstream_names': ['FREELY_REDISTRIBUTABLE'],
    },
    {'shortname': 'GPL-2',
     'filename': 'GPL-2',
     'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
    },
    {'shortname': 'GPL-2+',
     'filename': 'GPL-2+',
     'upstream_names': ['GPLv2+_MISC', 'GPLv2+_DOC_FULL', 'GPLv2+_DOC_MISC', 'GPLv2+_DOC_ONEPara', 'GPLv2+_SW_3_PARA', 'GPLv2+_SW_ONEPara'],
    },
]
'shortname': 'henry-spencer-regex',
'filename': 'henry-spencer-regex',
'upstream_names': ['MISC'],
},
{
# This shortname is not defined by the standard.
'shortname': 'LDPv1',
'filename': 'LDPv1',
'upstream_names': ['LDPv1'],
},
{
'shortname': 'public-domain',
'filename': 'public-domain',
'upstream_names': ['PUBLIC_DOMAIN'],
},
{
# This shortname is not defined by the standard.
'shortname': 'verbatim',
'filename': 'verbatim',
'upstream_names': ['VERBATIM', 'VERBATIM_ONE_PARA', 'VERBATIM_TWO_PARA', 'VERBATIM_PROF'],
}
]

licenses_with_manpages = {}  
symlinks = {}

def get_license_shortname(name):
    
    """Gets the Debian shortname for the name supplied by upstream.

    Includes a check that upstream's names are only assigned
to one shortname.
    """
    shortname = ""
    already_found = False
    for info in license_information:
        if name in info['upstream_names']:
            if not already_found:
                shortname = info['shortname']
                already_found = True
            else:
                sys.exit("Fatal error: Upstream license name defined multiple times: "+ name)
                return shortname

    def add_manpage_to_shortname(manpage, copyright_holders, licenses):
        # Ensure a string for the filename
        filename = str(manpage)
        # Strip the leading "/"
filename = filename[3:len(filename)]
# Common case: only one license for the manpage, so
# the shortname is just e.g. "GPL-2+
shortname = " and ",join(sorted(licenses))
if shortname not in licenses_with_manpages:
    licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
else:
    licenses_with_manpages[shortname]['files'].append(filename)
# Do not add same lines twice
existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ""
    # Collect files and symlinks into a common list
    all_files = file_info['files']
    for file in file_info['files']:
        if file in symlinks:
            all_files = all_files + symlinks[file]
    # Join the files into a whitespace separated list,
    # at most 76 characters long
    files = " ",join(sorted(all_files))
    # The wrap is 69 + 7 (length of "Files: ") = 76
    files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
    files = "\n      ",join(files)
    # Now format the copyright holders
    copyright = "\n           ",join(sorted(file_info['copyright']))
    # An empty field is an error, so ensure a value
    if len(copyright) == 0:
        copyright = "(could not be detected automatically)"
    # Finally, create the stanza
    stanza += "Files: " + files
    stanza += "\nCopyright: " + copyright
    stanza += "\nLicense: " + shortname + "\n"
    return stanza

def get_license_text(shortname):
    """Gets the text for the Debian license shortname."""
    text = ""
    for info in license_information:
        if info['shortname'] == shortname:
            text += "License: " + shortname + "\n"
            with open("licenses/" + info['filename']) as licensefile:
                for line in licensefile:
                    text += " " + line
            return text
p = Path("..")
for manpage in p.glob("man?/*"):  
    with manpage.open() as file:
        licenses = []
        copyright_holders = []
        manpage_is_symlink = False
        for line in file:
            # Do not create copyright stanzas for symlink files
            # but add them to a symlink list
            symlink = re.search(r"^\.so (.*)", line)
            if symlink:
                manpage_is_symlink = True
            # Ensure a string for the filename
            linkname = str(manpage)
            # Strip the leading "../"
            linkname = linkname[3:len(linkname)]
            filename = symlink.group(1)
            if filename in symlinks:
                symlinks[filename].append(linkname)
            else:
                symlinks[filename] = [linkname]
            break
            # Only parse the header, so stop after seeing ".TH"
            if re.search(r"^\.TH", line):
                break
            # Extract all copyright holders
            copyright = re.search(r"^\.\".*?Copyright (.*)", line)
            if copyright:
                copyright_holders.append(copyright.group(1))
            # Match the beginning of the license
            license_start = re.search(r"^\.\" %%%LICENSE_START\((.*)\)\", line)
            if license_start:
                license_name = license_start.group(1)
                license_short_name = get_license_shortname(license_name)
                if not license_short_name:
                    sys.exit("Fatal error: Upstream license name not known: " + license_name)
                licenses.append(license_short_name)
            if not manpage_is_symlink:
                add_manpage_to_shortname(manpage, copyright_holders, licenses)
            # Flatten the symlinks by detecting and removing
            # a symlink which points to another symlink.
            for link_to_test in symlinks:
                # Now cycle through all symlink entries
                for link in symlinks:
                    if link_to_test in symlinks[link]:
                        symlinks[link] = symlinks[link] + symlinks[link_to_test]
# Make sorting of licenses deterministic
stanzas = ""
license_texts = []
for shortname in sorted(licenses_with_manpages):
stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
text = get_license_text(shortname)
if text:
    license_texts.append(text)

# Read in the first lines of copyright, without
# the automatically generated parts. Stop after
# the third occurrence of "License".
manual_lines = ""
license_line_count = 0
with open("copyright") as copyright_file:
    for line in copyright_file:
        manual_lines += line
        if re.search(r'^License:', line):
            license_line_count += 1
        if license_line_count == 3:
            # Add a final newline for separation
            manual_lines += "\n"
            break

# Open the file for output
with open("copyright", "w") as copyright_file:
copyright_file.write(manual_lines)
copyright_file.write(stanzas)
copyright_file.write("\n".join(license_texts))

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        man3/CIRCLEQ_INSERT_HEAD.3 man3/CIRCLEQ_INSERT_TAIL.3
        man3/CIRCLEQ_REMOVE.3 man3/LIST_EMPTY.3 man3/LIST_ENTRY.3
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man3/feof.3 man3/ferror.3 man3/fflush.3 man3/fgetpos.3 man3/fileno.3
man3/fopen.3 man3/fread.3 man3/freopen.3 man3/fscanf.3 man3/fseek.3
man3/fsetpos.3 man3/ftell.3 man3/fts.3 man3/fts_children.3
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man3/fwrite.3 man3/get_myaddress.3 man3/getrpchynumber.3
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man3/xdr_bool.3 man3/xdr_bytes.3 man3/xdr_callhdr.3
man3/xdr_callmsg.3 man3/xdr_char.3 man3/xdr_destroy.3
man3/xdr_double.3 man3/xdr_enum.3 man3/xdr_float.3 man3/xdr_free.3
man3/xdr_getpos.3 man3/xdr_inline.3 man3/xdr_int.3 man3/xdr_long.3
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man3/xdr_pmaplist.3 man3/xdr_pointer.3 man3/xdr_reference.3
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man4/urandom.4 man4/vcs.4 man4/vcsa.4 man4/wavelan.4 man4/zero.4
man5/attr.5 man5/charmap.5 man5/filesystems.5 man5/fs.5
man5/ftpusers.5 man5/group.5 man5/host.conf.5 man5/hosts.5
man5/hosts.equiv.5 man5/inet.5 man5/issue.5 man5/locale.5
man5/motd.5 man5/networks.5 man5/nologin.5 man5/nsf.conf.5
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man5/protocols.5 man5/reptoporemap.5 man5/security.5 man5/shells.5
man5/termcap.5 man5/ttytype.5 man5/utmp.5 man5/utmpx.5 man5/wtmp.5
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1.372 mount 2.27.1 :6ubuntu3.8

1.372.1 Available under license :

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util-linux-ng and has thus moved to the util-linux Debian source
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<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
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This is libblkid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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
2e1cee529cb59e9341afe0443f196a1 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

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

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 b unknown e ADOS
2 Version 6 7  4.2BSD    a 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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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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
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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

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
2d8e8df5148a045db233418dd73fbe 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
2e1cee529cb59c9341afe0443f196a1 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

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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096  6144    2049    1M 4.2BSD       0     0   0
b  4096 20479   16384    8M unused      0     0   0
c  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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text-utils/colcrt.c
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text-utils/hexdump.c
text-utils/hexdump.h
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<signature of Ty Coon>, 1 April 1990
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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>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;</td>
<td>1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73f8e 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>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;</td>
<td>1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>&lt;removed&gt;</td>
<td>2</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>End Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Cfg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096 20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0 0</td>
</tr>
<tr>
<td>d</td>
<td>0 16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0 0</td>
</tr>
</tbody>
</table>

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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096 6144   2049 1M 4.2BSD       0   0  0
b  4096 20479 16384 8M unused       0   0  0
c  0 16064   16065 7.9M unused       0   0  0

d  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

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):
1.373 multiarch-support 2.23 :0ubuntu11

1.373.1 Available under license:

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
    transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE)\
    && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
+  # warning `_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE”
+*/
+# undef _DEFAULT_SOURCE
+# define _DEFAULT_SOURCE 1
#endif

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
 +++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE)\
   && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
+   # warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE	1
#endif

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1.376 ncurses-term 6.0+20160213 :1ubuntu1

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base64.c -- routines to encode/decode base64 data
SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ / 
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*/

package java.security;

/**
* Abstract class for representing access to a system resource.
* All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
*
* Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object. For example,
* for a [ @code java.io.FilePermission] object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* [ @code java.lang.RuntimePermission],
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
An important method that must be implemented by each subclass is the `implies` method to compare Permissions. Basically, "permission p1 implies permission p2" means that if one is granted permission p1, one is naturally granted permission p2. Thus, this is not an equality test, but rather more of a subset test.

Permission objects are similar to String objects in that they are immutable once they have been created. Subclasses should not provide methods that can change the state of a permission once it has been created.

```java
public abstract class Permission implements Guard, java.io.Serializable {

  private static final long serialVersionUID = -563657022231596674L;

  private String name;

  /**
   * Constructs a permission with the specified name.
   *
   * @param name name of the Permission object being created.
   *
   */
  public Permission(String name) {
    this.name = name;
  }

  /**
   * Implements the guard interface for a permission. The
   * `SecurityManager.checkPermission` method is called,
   * passing this permission object as the permission to check.
   * Returns silently if access is granted. Otherwise, throws
   * a SecurityException.
   *
   * @param object the object being guarded (currently ignored).
   *
   * @throws SecurityException
  }
```

@see Permissions
@see PermissionCollection

@author Marianne Mueller
@author Roland Schemers
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

public abstract boolean implies(Permission permission);

public abstract boolean equals(Object obj);

public abstract boolean checkPermission();
* The required `hashCode` behavior for Permission Objects is
* the following:
* <ul>
* <li>Whenever it is invoked on the same Permission object more than
* once during an execution of a Java application, the
* `hashCode` method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
* `equals` method, then calling the `hashCode` method on each of the
* two Permission objects must produce the same integer result.
* </ul>
* @return a hash code value for this object.
*/

class Permission {
    public abstract int hashCode();

    /**
     * Returns the name of this Permission.
     * For example, in the case of a `java.io.FilePermission`,
     * the name will be a pathname.
     *
     * @return the name of this Permission.
     */
    public final String getName() {
        return name;
    }

    /**
     * Returns the actions as a String. This is abstract
     * so subclasses can defer creating a String representation until
     * one is needed. Subclasses should always return actions in what they
     * consider to be their
     * canonical form. For example, two FilePermission objects created via
     * the following:
     *
     * <pre>
     * perm1 = new FilePermission(p1,"read,write");
     * perm2 = new FilePermission(p2,"write,read");
     * </pre>
     *
     * both return
     * "read,write" when the `getActions` method is invoked.
     */
public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the [@code PermissionCollection.implies] method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '@code("ClassName" "name" "actions")', or
 * '@code("ClassName" "name")' if actions list is null or empty.
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "@code(" + getClass().getName() + " " + name + ")";
    } else {
        return "@code(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */

public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();

}
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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings
dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
# Search Sequences

- `sequence.allfonts=latin-1`
- `sequence.allfonts.Big5=chinese-big5,latin-1`
- `sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1`
- `sequence.allfonts.EUC-KR=korean,latin-1`
- `sequence.allfonts.GB18030=chinese-gb18030,latin-1`
- `sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean`

# Font File Names

- `filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf`
- `filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf`
- `filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf`
- `filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf`
- `filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf`
- `filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf`
- `filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf`
- `filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf`
- `filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf`
- `filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf`
- `filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf`
- `filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf`
- `filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf`
- `filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf`
- `filename.AR_PL_ShankHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf`
- `filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf`
- `filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf`
- `filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf`

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 */
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
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    ;

    private static final String ORACLE_AFTER2012 =
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         */
    ;

    private static final String UNICODE =
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         */
    ;

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 * questions.
 */
";

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
    return year;
}
Locale.US).get(Calendar.YEAR);

// no instantiation
private CopyrightHeaders() {
}
}
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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 * questions.
 * */
/**
 *
 */
import java.rmi.Remote;
public interface Legal extends Remote {};

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Robert Lougher <rob@jamvm.org.uk>.

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#
# Version
#
# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
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 * questions.
 */

package java.security;
/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@code FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * {@code RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the {@code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     * @see Permissions
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * [code SecurityManager.checkPermission] method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 *
 * @param object the object being guarded (currently ignored).
 *
 * @throws SecurityException
 *     if a security manager exists and its
 *     [code checkPermission] method doesn't allow access.
 *
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 *
 */

public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The [code implies] method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 *         false if not.
 * */

public abstract boolean implies(Permission permission);
public abstract boolean equals(Object obj);

public abstract int hashCode();

public final String getName() {
    return name;
}
/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * 
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * 
 * both return
 * "read,write" when the {@code getActions} method is invoked.
 * 
 * @return the actions of this Permission.
 * 
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * 
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 * 
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('"ClassName" "name" "actions"'), or
 * ('"ClassName" "name") if actions list is null or empty.
 * 

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + 
            " " + actions + ")";
    }
}

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* questions.
*/

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {
/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 *
 * @return the string representation of the permission.
 */
public String toString();

}

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 */

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;
class CopyrightHeaders {
    private static final String ORACLE2012 =
            /*
             * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.
             */
    
    private static final String ORACLE_AFTER2012 =
            /*
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             */
    
    private static final String UNICODE =
            /*
             * COPYRIGHT AND PERMISSION NOTICE
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            /*
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             */
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            /*
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             */
            +
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            /*
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" *
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" * questions.
" *
static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
       Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [code java.io.FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [code java.lang.RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 * <p>An important method that must be implemented by each subclass is
 * the [code implies] method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 */

public abstract class Permission extends java.security.Policy

@see Permissions
@see PermissionCollection

@author Marianne Mueller
@author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {
private static final long serialVersionUID = -5636570222231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * {code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException
 *        if a security manager exists and its
 *        {code checkPermission} method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The {code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 * *
 * @param obj the object we are testing for equality with this object.
 * *
 * @return true if both Permission objects are equivalent.
 * */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required method behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * @code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 * <li>If two Permission objects are equal according to the
 * @code equals method, then calling the @code hashCode} method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 * *
 * @return a hash code value for this object.
 * */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a @code java.io.FilePermission},

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * *
 * both return
 * "read,write" when the {@code getActions} method is invoked.
 * *
 * @return the actions of this Permission.
 * *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {

return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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* questions.
*/

package java.security.acl;
/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */

public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();

}
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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bold.latin-1=DejaVu LGC Sans Bold
sansserif.bold.japanese-x0208=Sazanami Gothic
sansserif.bold.korean=Baekmuk Gulim
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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 */
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
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        */
    
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        */
    
    public static String getCopyright() {
        Calendar cal = Calendar.getInstance();
        cal.set(GregorianCalendar.YEAR, 2012);
        return ORACLE2012;
    }
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*/

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                   Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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import java.rmi.Remote;
public interface Legal extends Remote {};

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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

This package was debianized by Matthias Klose <doko@ubuntu.com> on

It was downloaded from
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http://ftp.gnome.org/pub/GNOME/sources/java-access-bridge/

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openjdk/j2se/make/java/nio/genExceptions.sh

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David Megginson <sax@megginson.com>
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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 *
 */
import java.rmi.Remote;
public interface Legal extends Remote {};
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platform=bsd

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import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

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static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}
static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                 Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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 */

package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
*
* <p>Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object. For example,
* for a {@code java.io.FilePermission} object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* { @code java.lang.RuntimePermission},
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p> An important method that must be implemented by each subclass is
* the { @code implies} method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <p>Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
*
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */

    public Permission(String name) {


this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * [ @code SecurityManager.checkPermission ] method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException
 * if a security manager exists and its
 * [ @code checkPermission ] method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 * /
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 *         false if not.
 * /
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
* Do not use the `{@code equals}` method for making access control
* decisions; use the `{@code implies}` method.
*
* `{@param obj the object we are testing for equality with this object.}
* `{@return true if both Permission objects are equivalent.}
*/

public abstract boolean equals(Object obj);

/**
* Returns the hash code value for this Permission object.
* <P>
* The required `{@code hashCode}` behavior for Permission Objects is
* the following:
* <ul>
*  <li>Whenever it is invoked on the same Permission object more than
*      once during an execution of a Java application, the
*      `{@code hashCode}` method
*      must consistently return the same integer. This integer need not
*      remain consistent from one execution of an application to another
*      execution of the same application.
*  <li>If two Permission objects are equal according to the
*      `{@code equals}`
*      method, then calling the `{@code hashCode}` method on each of the
*      two Permission objects must produce the same integer result.
* </ul>
*<*/
*
* `{@return a hash code value for this object.}
*/

public abstract int hashCode();

/**
* Returns the name of this Permission.
* For example, in the case of a `{@code java.io.FilePermission}`,
* the name will be a pathname.
*
* `{@return the name of this Permission.}
*/

public final String getName() {
    return name;
}

/**
* Returns the actions as a String. This is abstract
public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */
public String toString() {
String actions = getActions();
if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
    return "(" + getClass().getName() + " " + name + ")";
} else {
    return "(" + getClass().getName() + " " + name + " " + actions + ")";
}
*/

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
public boolean equals(Object another);
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
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1.385 openssh-client 1:7.2p2 :4ubuntu2.8
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/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mourning Exp */

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#endif
#define _BSD_WAITPID_H
```c
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!(_W_INT(w) & 0377)
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w) ((int)(_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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/ *
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**
** Damien Miller <djm@ibs.com.au>
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/*OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef	_COMPAT_POLL_H_
#define	_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0010
#define POLLHUP 0x0020
#define POLLNVAL 0x0040
#if 0
  /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0004
#define POLLNORM POLLRDNORM
#define POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x1000
#else
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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*/

#ifndef HAVE_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/*
 * OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp *

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H
#define COMPAT_POLL_H

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */
#endif __BSD_WAITPID_H
#define __BSD_WAITPID_H
#define BSD_WAITPID_H

Open Source Used In Ultra Services Platform Version 6.10
19003
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

worldwide mirrors are listed here:
http://www.openssh.com/ftp.html

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 **
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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
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- MD5 is now external, in the OpenSSL library
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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#ifndef HAVE_SETREGSID
int setregid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
#endif

# ifndef COMPAT_POLL_H_
#define COMPAT_POLL_H_

...
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLWRBAND
#define POLLWRBAND 0x0080
#define POLLRDDBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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/*
 *
 #ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int *)&(w)) /* convert union to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
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1.386 openssh-server 1:7.2p2 :4ubuntu2.8

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/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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-----
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It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

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It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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**
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRH 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (W_INT(w) & 0177) : -1))
#define WCOREDUMP(w) ((W_INT(w)) & WCOREFLAG)
#define WCOREFLAG 0x80
#define WCOREFLAG0x80
#define _W_INT(w) ((int)&(w))
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp *$*/

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 */
/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define _COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNDM 0x0040
#define POLLNORMPOLLRDNDM
#define POLLWRNORM POLLOUT
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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 */

#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#include "compat_poll.h"

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x020
#if 0
    /* the following are currently not implemented */
    #define POLLPRI 0x0002
    #define POLLRDNORM 0x0040
    #define POLLNORM POLLRDNORM
    #define POLLRDBAND 0x0080
    #define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

worldwide mirrors are listed here:
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The Debian-specific parts of the package were initially derived from the
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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

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It was packaged for Debian by Philip Hands <phil@hands.com>.

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/*
 **
 ** GNOME ssh passphrase requestor
 **
 ** Damien Miller <djm@ibs.com.au>
 **
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */

#endif

#endif

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/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)(w)) /* convert union wait to int */
#define WIFEXITED(w) (!_W_INT(w) & 0377)
#define WIFSTOPPED(w) (!_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!_W_INT(w) & !WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) int(__W_IFEXITED(w) ? (__W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) int(__W_IFSIGNALED(w) ? (__W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((__W_INT(w) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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/*
 * GNOME ssh passphrase requestor
 * *
 * Damien Miller <djm@ibs.com.au>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM (-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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*/

#include HAVE_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif

#include HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/* std: bsd-waitpid.h.v 1.5 2003/08/29 16:59:52 mourning Exp $ */

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */

#endif
#define HAVE_WAITPID
*/
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)(&w))) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp */

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 */

#endif HAVE_SETRESGID

int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
intsetresuid(uid_t, uid_t, uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLRBNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif

#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
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 * **
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It was downloaded from here:
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/*
 * $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp *
 */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_
#endif
#endif

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLWRBAND
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
    /* Clean out any potential issues */
    #undef WIFEXITED
    #undef WIFSTOPPED
    #undef WIFSIGNALED

    /* Define required functions to mimic a POSIX look and feel */
    #define _W_INT(w) (*((int*)(&(w))))/* convert union wait to int */
    #define WIFEXITED(w) (!((_W_INT(w)) & 0377))
    #define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
    #define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
    #define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
    #define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
    #define WCOREFLAG 0x80
    #define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

    /* Prototype */
    pid_t waitpid(int, int *, int);
#endif
#endif

This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
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1.391 patch 2.7.5 :1ubuntu0.16.04.1

1.391.1 Available under license:

This is Debian's prepackaged version of patch, Larry Wall's program that
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The current maintainer for this package is Laszlo Boszormenyi (GCS)
<gcs@debian.org>.

Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>,
Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>,
Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.

The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp.
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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jloup@gzip.org          madler@alumni.caltech.edu

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).
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dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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#!/perl

=head1 NAME

copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the `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 `--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,})\b/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 \d{4,}/i
    or die "Copyright statement not found in perl -v output $output";

  $year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.
"
built_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/
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.394 perl-base 5.22.1 :9ubuntu0.6
1.394.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.22.1

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Julian Seward, jseward@bzip.org
bzlib/libbz2 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
  Module-Build mailing list at <module-build@perl.org>.")
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3
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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    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 a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    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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#!perl
Tests that the latest copyright years in the top-level README file and the `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 `--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.

```perl
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) = $output =~ /copyright \d{4,}/i
  or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---------------------------------------------------------------

# 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) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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Version 1, February 1989

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.
Upstream Authors:

- Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.22.1

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are included at the end of this file.

Part of this file carries the following comment:

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(http://burtleburtle.net/bob/hash/doobs.html)
It is by Paul Hsieh (c) 2004 and is analysed here
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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-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
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

/* 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 (deflate format) and rfc1952 (gzip format).

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ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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ext/Fcntl/*
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ext/IPC-Open2/*
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ext/NDBM_File/*
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ext/PerlIO-scalar/*
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ext/IPC-Open3/*
ext/NDBM_File/*
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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.
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 =~ /.*\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;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
built_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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.396 procsps 2:3.3.10 :4ubuntu2.4
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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<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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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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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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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.397 python 2.7.12 :1~16.04

1.397.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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--------------------------------------------------------------

A. HISTORY OF THE SOFTWARE

==============

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.
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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.

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dh_python2, pycompile, pyclean and debpython module:

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1.400 python-appdirs 1.4.0-2

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1.405 python-celery 3.1.20-1

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1.407 python-cinderclient 1:1.6.0-2ubuntu1

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1.408 python-cliff 1.15.0-2ubuntu2

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1.409 python-cmd2 0.6.8-1
1.409.1 Available under license:
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Source: http://www.assembla.com/wiki/show/python-cmd2

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1.410 python-concurrent.futures 3.0.5-1
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-concurrent.futures
Source: https://github.com/agronholm/pythonfutures

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Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmnts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

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Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
  - Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17  4A24 92BC EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
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> on the point of whether distributing modified versions is
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```

Regards,

- Dwayne
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
> 
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
> 
> Regards,
> 
> Mark.
> 
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> >> To: "Mark Moraes" <moraes@computer.org>
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approved the following dedication for their contributions.

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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1
  1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
  Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Feb 28 23:24:14 -0500
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
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> 
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Regards,
-Dwayne

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Dwayne C. Litzenberger <dlitz@dlitz.net>
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--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha25=}
I don’t really check this email address all that often, so please direct any further correspondence to jeethu@jeethurao.com.

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. People often ask me what license PyCrypto is covered by, if it is GPL-compatible, etc. Right now, I’m not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. It says “distribute and use”, but not “modify”. People often ask me what license PyCrypto is covered by, if it is GPL-compatible, etc. Right now, I’m not really sure what to tell them.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).
I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:

```
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
```

Regards,

-Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0 Key-signing key =A0 19E1 1FE8 B3CF F273 ED17 =A0 A0 39C2 5CF7

</div></div>--000e0cd209d0e5a3d40464a23054--

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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======================================================================

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxJEJDWtm26PTAZxMz4B
FektbD02kxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtgus/yR+Doaq0xOPKOBx+/5+t1ILJtBcZ
wrPEa9Oui9s=
=zSY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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===================================================================

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
> I understand that you have made contributions to PyCrypto. May I, =20
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBptnXfVAQLZigP/ecG+JdZwNvPJrtsa6rhY6+MHLDHf6agk
evkJnSJqACeVHznYVeR51Xg7vDUMakZjU4SOV7MqkhKA9Ile7PaD9VSYgn3ra5
gElw12QDOo7ySgExXMm74qrrb1PCCbCRmpaYNo+dZohwHeBFbwDRA3wItOrH7
SK4w9VBjIfY=3D
=3DQduY
-----END PGP SIGNATURE-----

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> >
> =
> >====================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

In case I haven't replied to this yet: Yes, this is fine with me.

robcy

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDKvyJ6cOLvQCfQmYYuVODvIlYlg0hgi9LAbQSH8AoLJgaq1ii7ZYDc+/Cd8VO0xLbr=Mv6g
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1; protocol="application/pgp-signature"; boundary="YiEDa0DAkWCTVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify").

_Distribute and use freely; there are no restrictions on further_
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all._

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk          (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a=20
clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=20

May I, on your behalf, dedicate to the public domain your considerable=20
contributions to PyCrypto, with the following notice?

_The contents of this file are dedicated to the public domain. To the_
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCFcyQ2DdAXKg9N7Z+jF4FFD5EZ
yloAn33aZjkleyJaTbEqImOEW8JGpf
=ABEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable
contributions to PyCrypto, with the following notice?

You may.

--amk
From dilitz@dilitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dilitz@dilitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dilitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk                     (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:from:date:message-id:subject:to:content-type
:content-transfer-encoding;
bh=A0RHBf0TnribKS5q0HJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhIHAdFKIZCBWsRbnMVQdIPWlIyC0EvxPska0r3HR96MWQNEBuP40Ac
Vn55qiQmTdom4e9z1UEE6MwZo9kqj/Qw0L/SLib0DIQeNqo/eHYqPmuVsWtAYwNAyMJ
Y9++76rPGqYdALSfsmwv7Q3/bEmjVT0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jre7KSMkUGilfVCXXaXMgi5ANtGdMQOtVZzIiRNYGSy68xOd2xsefyiyig3EiT6Nv6
Q3opUMsT96Q6qjZND55s46kTh2uBTNz4d3NwJeEWJnG3xclIRQu/mXPfp8AzPI3CefL
1ornJLMleQ2XyuZA73jem+SJtfdHUcSD1Ulgl=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
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> >
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> >>
> >> =======================================================================
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> >> extent that dedication to the public domain is not available, everyone
> >> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> >> to exercise all rights associated with the contents of this file for
> >> any purpose whatsoever. No rights are reserved.
> >> =======================================================================
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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```
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=======================================================================
```

Regards,
Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
> the public domain with your suggested notice:
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> any purpose whatsoever. No rights are reserved.
> Regards,
> Joris
>
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
> 
> >> Hi Joris,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >>
> >> People often ask me what license PyCrypto is covered by, if it’s
> >> GPL-compatible, etc. Right now, I’m not really sure what to tell them.
> >> The text in the current LICENSE file (quoted below) is not entirely clear
> >> on the point of whether distributing modified versions is allowed. (It
> >> says "distribute and use", but not "modify").
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> >> (though that would be nice).
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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.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
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<th>GPL-compatible? (1)</th>
</tr>
</thead>
</table>
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LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net [10.159.255.6] (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
    by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
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    Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
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    Date: Wed, 27 Aug 2008 20:42:54 -0400
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    X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
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    preference=sigencrypt
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    X-Delivery-Agent: TMDA/1.1.9 (Jura)
    From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
    X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

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#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
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# crypt@bis.doc.gov
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# pycrypto@lists.dlitz.net
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# on Thursday 28 August 2008 with reference 0520978
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SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
cryptography to be covered by U.S. export controls, but I am submitting
this anyway.
(Sorry for spamming the lists, but I want there to be a record of this.)

- --

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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-----END PGP SIGNATURE-----

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: pycrypto
Upstream-Contact: Dwayne C. Litzenberger <dlitz@dlitz.net>
Source: http://www.dlitz.net/software/pycrypto/

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Comment:
The original packaging is by:
* 2002-2010 Andreas Rottmann <rotty@debian.org> and
* 2010 James Cook <zealcook@gmail.com>
But only parts of debian/control, debian/watch and
debian/python-crypto-doc.doc-base remain from the old packaging. Everything else has been rewritten.
1.412 python-dateutil 2.4.2 :1

1.412.1 Available under license:

This package was debianized by Guido Guenther <agx@sigxcpu.org> on Wed, 6 Sep 2006 10:33:06 +0200.

It was downloaded from http://labix.org/python-dateutil

Upstream Author: Gustavo Niemeyer <gustavo@niemeyer.net>

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A. HISTORY OF THE SOFTWARE

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<th>GPL-compatible? (1)</th>
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1.6.1    1.6    2001    CNRI      yes (2)
2.1     2.0+1.6.1 2001 PSF        no
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2.1.1    2.1+2.0.1 2001 PSF        yes
2.2     2.1.1    2001 PSF        yes
2.1.2    2.1.1    2002 PSF        yes
2.1.3    2.1.2    2002 PSF        yes
2.2.1    2.2     2002 PSF        yes
2.2.2    2.2.1    2002 PSF        yes
2.3     2.2.2    2002-2003 PSF        yes

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1.413 python-debtcollector 1.3.0-2

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1.414 python-defusedxml 0.4.1
:2ubuntu0.16.04.1

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1.415 python-deltarpm 3.6+dfsg :1build4

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+++ b/docutils/writers/s5_html/themes/default/iepngfix.htm
@@ -4,7 +4,7 @@
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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.

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1.421 python-glanceclient 1:2.0.0-2ubuntu0.16.04.1

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1.422 python-iniparse 0.4-2.2

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Maintainer: Paramjit Oberoi <param.cs.wisc.edu>, Tim Lauridsen <tla@rasmil.dk>
Source: http://code.google.com/p/iniparse/

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In 1995, Guido continued his work on Python at the Corporation for
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.423 python-iso8601 0.1.11-1

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1.424 python-itsdangerous 0.24+dfsg1 :1
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1.426 python-json-patch 1.19 :3

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1.428 python-jsonschema 2.5.1 :4
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1.430 python-keyring 7.3-1ubuntu1

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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dh_python2, pycompile, pyclean and debpython module:

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1.441 python-mock 1.3.0-2.1ubuntu1

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1.442 python-monotonic 0.6-2

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1.443 python-msgpack 0.4.6-1build1

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1.445 python-netifaces 0.10.4 :0.1build2

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1.446 python-neutronclient 1:4.1.1-2ubuntu1
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1.447 python-novaclient 2:3.3.1-2ubuntu1

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1.453 python-paramiko 1.16.0 :1ubuntu0.2

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.457 python-prettytable 0.7.2 :3

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1.458 python-pyasn1 0.1.9 :1

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1.459 python-pycurl 7.43.0 :1ubuntu1

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1.464 python-requestsexceptions 1.1.2-0ubuntu1

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1.465 python-roman 2.0.0 :2

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1.466 python-rpm 4.12.0.1+dfsg1 :3build3

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---------------------------------------------------------------------------

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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## 1.467 python-setuptools 20.7.0 :1

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### A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.476 python-urllib3 1.13.1-2ubuntu0.16.04.3

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1.477 python-warlock 1.1.0-1

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1.478 python-werkzeug 0.10.4+dfsg1
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1.480 python-yaml 3.11 :3build1

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...
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.. _history-and-license:

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History and License
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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------------

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strtod and dtoa

-------------

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2krr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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---------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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    UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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*******************
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*******************

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========================

Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
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Mersenne Twister

----------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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Sockets
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L. Peter Deutsch
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Independent implementation of MD5 (RFC 1321).

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------------

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Select kqueue
-------------

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--------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
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History of the software
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Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
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Mersenne Twister

-------------

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `mod:` `socket` `module` uses the functions, `:func:` `getaddrinfo`, and `:func:` `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).
This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

The `:mod:` `asynchat` and `:mod:` `asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:
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- Arguments more compliant with Python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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MD5 message digest algorithm
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
   references to Ghostscript; clarified derivation from RFC 1321;
   now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
   added conditionalization for C++ compilation from Martin
   Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.
Asynchronous socket services

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------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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Mersenne Twister

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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---------------------------------------------------------------------
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to
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**1.483 python3 3.5.1 :3**

**1.483.1 Available under license:**

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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**A. HISTORY OF THE SOFTWARE**

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.487 python3-chardet 2.3.0 :2

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1.490 python3-dbus 1.2.0 :3

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1.491 python3-gi 3.20.0 :0ubuntu1
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1.495 python3-jsonpatch 1.19 :3

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Upstream-Name: python-json-patch
Source: git://github.com/stefankoegl/python-json-patch.git

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1.496 python3-jwt 1.3.0 :ubuntu0.1
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Upstream-Name: PyJWT
Upstream-Contact: Jos Padilla <hello@jpadilla.com>
Source: https://pypi.python.org/pypi/PyJWT

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1.497 python3-markupsafe 0.23 :2build2

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1.498 python3-minimal 3.5.1 :3

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Upstream-Name: oauthlib
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1.500 python3-pkg-resources 20.7.0 :1

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1.503 python3-serial 3.0.1 :1

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1.504 python3-six 1.10.0 :3

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1.505 python3-urllib3 1.13.1 :2ubuntu0.16.04.3

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1.506 python3-yaml 3.11 :3build1

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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
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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History of the software

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
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--------------

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zlib
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cfuhash
-------

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libmpdec
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

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-------

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The :mod:`_decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

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    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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A. HISTORY OF THE SOFTWARE
============================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome. 
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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==============

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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.

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Mersenne Twister

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using \texttt{init\_genrand(seed)}
or \texttt{init\_by\_array(init\_key, key\_length)}.

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The \texttt{\texttt{mod:} socket\texttt{}} module uses the functions, \texttt{\texttt{func:} getaddrinfo\texttt{}} , and 
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtol and dtoa
--------------

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Jean-loup Gailly       Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

The :mod:`_decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

-----------

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Modified by Jack Jansen, CWI, July 1995:  
- Use binascii module to do the actual line-by-line conversion  
  between ascii and binary. This results in a 1000-fold speedup. The C  
  version is still 5 times faster, though.  
- Arguments more compliant with Python standard

XML Remote Procedure Calls  
--------------------------

The :mod:`xmlrpc.client` module contains the following notice:

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test_epoll
----------

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Select kqueue
----------

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SipHash24
-------

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
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------

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zlib
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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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==============

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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
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Mersenne Twister

-----------

The `_random` module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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http://www.math.keio.ac.jp/matumoto/emt.html
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-------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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History of the software
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 2.1.2          | 2.1.1        | 2002       | PSF        | yes             |
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Mersenne Twister
----------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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UUencode and UUdecode functions
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard
XML Remote Procedure Calls

--------------------------

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Select kqueue
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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash
------

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Mersenne Twister
---------------

The `random' module includes code based on a download from 'http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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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.

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
Sockets

-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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-----------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
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   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.
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1.509 qemu-block-extra 1:2.5+dfsg:5ubuntu10.41

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 * FreeBSD strace list
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{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(%s,%s,%s)", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%#d,%#s)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
  /* 62 is old fstat */
  /* 63 is old getkerninfo */
  /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
  /* 67 is obsolete vread */
  /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
  /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
  /* 76 is obsolete vhangup */
  /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
  /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getpriority 86
  /* 87 is old gethostname */
  /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
  /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
  /* 101 is old send */
  /* 102 is old recv */
  /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
  /* 107 is obsolete vtimes */
  /* 108 is old sigvec */
  /* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigrspends */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpereurn */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semssys 169
#define TARGET_FREEBSD_NR_msgssys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_npt_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrecv 227
#define TARGET_FREEBSD_NR_shmget 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmat 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfirstmod 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_kldunload 310
#define TARGET_FREEBSD_NR_setresuid 311
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#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
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#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
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#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR__getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
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#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpsfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR__acl_get_file 347
#define TARGET_FREEBSD_NR__acl_set_file 348
#define TARGET_FREEBSD_NR__acl_get_fd 349
#define TARGET_FREEBSD_NR__acl_set_fd 350
#define TARGET_FREEBSD_NR__acl_delete_file 351
#define TARGET_FREEBSD_NR__acl_delete_fd 352
#define TARGET_FREEBSD_NR__acl_aclcheck_file 353
#define TARGET_FREEBSD_NR__acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
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#define TARGET_FREEBSD_NR_getresuid 360
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#define TARGET_FREEBSD_NR_kqueue 362
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#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
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#define TARGET_FREEBSD_NR__setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR__nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
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#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
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#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_stats 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
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#define TARGET_FREEBSD_NR_ksem_post 401
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#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
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#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
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#define TARGET_FREEBSD_NR_setcontext 419
#define TARGET_FREEBSD_NR_swapcontext 420
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#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
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#define TARGET_FREEBSD_NR_thr_exit 431
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#define TARGET_FREEBSD_NR_setaudit  450
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#define TARGET_FREEBSD_NR_kmq_timedsend  460
#define TARGET_FREEBSD_NR_kmq_notify  461
#define TARGET_FREEBSD_NR_kmq_unlink  462
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#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync  465
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#define TARGET_FREEBSD_NR_lseek  478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate  480
#define TARGET_FREEBSD_NR_thr_kill2  481
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#define TARGET_FREEBSD_NR_cpuset_setid 485
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#define TARGET_FREEBSD_NR_fchownat 491
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#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
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#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
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#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
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#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rctl_get_racct 524
#define TARGET_FREEBSD_NR_rctl_get_rules 525
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#define TARGET_FREEBSD_NR_rctl_add_rule 527
#define TARGET_FREEBSD_NR_rctl_remove_rule 528
#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
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/* System call numbers. */

#define TARGET_OPENBSD_NR_syscall 0
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#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
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#define TARGET_OPENBSD_NR_getsockname 32
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#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
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#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
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#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
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#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
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#define TARGET_OPENBSD_NR_sigsuspend 111
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#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
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#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
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#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
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#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR___syscall 199
#define TARGET_OPENBSD_NR_lseek 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctln 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_mgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
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#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
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#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 *
 */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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That's all there is to it!
/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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* @(#)errno.h 8.5 (Berkeley) 1/21/94 */

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDeadLK          11              /* Resource deadlock avoided */
  /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL            22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */
#define TARGET_ENOTSOCK         38              /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ     39              /* Destination address required */
#define TARGET_EPROTOTYPE       41              /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKETNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */

#define TARGET_EPROTCORE 70 /* Stale NFS file handle */
#define TARGET_EPROTCORE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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* *
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
*      @(#)mman.h      8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, even within heap */

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7
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Ty Coon, President of Vice

That's all there is to it!

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_oshutdown 101
#define TARGET_NETBSD_NR_compat_43_osigvec 102
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_osigsetmask 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
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/*
 * FreeBSD strace list
 */

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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___syscall, "__syscall" },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl" },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %d, %d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__adjtime, "__adjtime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,\"%s\")" , NULL, NULL },
{ TARGET_FREEBSD_NR Thr_suspend, "thr_suspend", "%s(%d, %#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)" , NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")" , NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink  10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_umount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_getgroups 80
#define TARGET_FREEBSD_NR_getpgpr 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon  85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirent 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR Unary syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_freebsd4_sigpending 343
/* 313 is obsolete signanosleep */
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
/* 324 is obsolete */
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_check_file 353
#define TARGET_FREEBSD_NR___acl_check_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_getresuid 359
#define TARGET_FREEBSD_NR_getresgid 360
#define TARGET_FREEBSD_NR_getresuid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR_getresgid 374
#define TARGET_FREEBSD_NR_eaccess 375
#define TARGET_FREEBSD_NR_afs3_syscall 376
#define TARGET_FREEBSD_NR_nmount 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_file 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_proc 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfs/stat 395
#define TARGET_FREEBSD_NR_setfa 396
#define TARGET_FREEBSD_NR_flstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define TARGET_FREEBSD_NR__mac_get_pid   409
#define TARGET_FREEBSD_NR__mac_get_link   410
#define TARGET_FREEBSD_NR__mac_set_link   411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve   415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff   424
#define TARGET_FREEBSD_NR__acl_get_link   425
#define TARGET_FREEBSD_NR__acl_set_link   426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait   429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR__umtx_lock    434
#define TARGET_FREEBSD_NR__umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd   437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait    441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon   446
#define TARGET_FREEBSD_NR_getauid   447
#define TARGET_FREEBSD_NR_setauid   448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit   450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op   454
#define TARGET_FREEBSD_NR_thr_new   455
#define TARGET_FREEBSD_NR_kmqueue  456
#define TARGET_FREEBSD_NR_kmqueue_open  457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_openat 498
#define TARGET_FREEBSD_NR_posix_openpt 499
#define TARGET_FREEBSD_NR_gssd_syscall 500
#define TARGET_FREEBSD_NR_jail_get 501
#define TARGET_FREEBSD_NR_jail_set 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NRposix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

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/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/* System call numbers. */

/* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
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#define TARGET_OPENBSD_NR_xfspioclt 208
#define TARGET_OPENBSD_NR semget 221
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#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
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#define TARGET_OPENBSD_NR___semctl 296
#define TARGET_OPENBSD_NR___msgctl 297
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#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threx 302
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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@(#)errno.h     8.5 (Berkeley) 1/21/94

```c
#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDeadLK          11              /* Resource deadlock avoided */

/* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
```
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET ENFILE 23 /* Too many open files in system */
#define TARGET EMFILE 24 /* Too many open files */
#define TARGET ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET ETEXTBSY 26 /* Text file busy */
#define TARGET EFBIG 27 /* File too large */
#define TARGET ENOSPC 28 /* No space left on device */
#define TARGET ESPPIPE 29 /* Illegal seek */
#define TARGET EFILE 30 /* Read-only file system */
#define TARGET EMFILE 31 /* Too many links */
#define TARGET EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET EDOM 33 /* Numerical argument out of domain */
#define TARGET ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET EWOUNDBLOCK EAGAIN /* Operation would block */
#define TARGET EINPROGRESS 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
#define TARGET EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET EOPNOTSUPP 45 /* Operation not supported */
#define TARGET EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET EADDRINUSE 48 /* Address already in use */
#define TARGET ENOTCONN 49 /* Socket is not connected */
#define TARGET ESPPIPE 50 /* Network is shutdown */

define TARGET ENETUNREACH 51 /* Network is unreachable */
#define TARGET ENETRESET 52 /* Network dropped connection on reset */
#define TARGET ECONNABORTED 53 /* Software caused connection abort */
#define TARGET ECONNRESET 54 /* Connection reset by peer */
#define TARGET ENOBUFFS 55 /* No buffer space available */
#define TARGET EISCONN 56 /* Socket is already connected */
#define TARGET ENOTCONN 57 /* Socket is not connected */
#define TARGET ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDEAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

/
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*    @(#)mman.h  8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */
define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

define TARGET_NETBSD_MAP_STACK    0x2000  /* allocated from memory, swap space (stack) */
define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
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 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400/* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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 */

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK         0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/*
/*
 * $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */
*/

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* @(#)mmman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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=======
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 */

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%#d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adtime, "adtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n" , NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s", %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%#d, %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%#d, %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%#d, %d, %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%#d, %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%#d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%#d,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mknodo, "mknodo", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", "%s", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_m smashing", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "prof", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%"":",%"":")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)"), NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sndmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sndto, "sndto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", "NULL", NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtinfo, "sigtinfo", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_sigioctls, "sigioctls", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigres, "sigres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(%"", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%d,%#x,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,%"", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_sleep, "thr_sleep", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", NULL, NULL },

/* System call numbers. */

* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_setsockopt 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138

/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140 /* COMPAT */
#define TARGET_FREEBSD_NR_killpg 140 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148

/* 149 is old quota */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155

/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirententries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6___syscall 199
#define TARGET_FREEBSD_NR_freebsd6_lseek 200
#define TARGET_FREEBSD_NR_freebsd6_truncate 201
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 202
#define TARGET_FREEBSD_NR___sysctl 203
#define TARGET_FREEBSD_NR_mlock 204
#define TARGET_FREEBSD_NR_munlock 205
#define TARGET_FREEBSD_NR_undelete 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 208
#define TARGET_FREEBSD_NR_freebsd7___semctl 209
#define TARGET_FREEBSD_NR_semget 210
#define TARGET_FREEBSD_NR_semop 211
#define TARGET_FREEBSD_NR_freebsd7_msgctl 212
#define TARGET_FREEBSD_NR_msgget 213
#define TARGET_FREEBSD_NR_msgsnd 214
#define TARGET_FREEBSD_NR_msgrcv 215
#define TARGET_FREEBSD_NR_shmat 216
#define TARGET_FREEBSD_NR_freebsd7_shmctl 217
#define TARGET_FREEBSD_NR_shmdt 218
#define TARGET_FREEBSD_NR_shmget 219
#define TARGET_FREEBSD_NR_clock_gettime 220
#define TARGET_FREEBSD_NR_clock_settime 221
#define TARGET_FREEBSD_NR_clock_getres 222
#define TARGET_FREEBSD_NR_ktimer_create 223
#define TARGET_FREEBSD_NR_ktimer_delete 224
#define TARGET_FREEBSD_NR_ktimer_settime 225
#define TARGET_FREEBSD_NR_ktimer_gettime 226
#define TARGET_FREEBSD_NR_ktimer_getoverrun 227
#define TARGET_FREEBSD_NR_nanosleep 228
#define TARGET_FREEBSD_NR_ntp_gettime 229
#define TARGET_FREEBSD_NR_minherit 230
#define TARGET_FREEBSD_NR_rfork 231
#define TARGET_FREEBSD_NR_openbsd_poll 232
#define TARGET_FREEBSD_NR_issetugid 233
#define TARGET_FREEBSD_NR_lchown 234
#define TARGET_FREEBSD_NR_aio_read 235
#define TARGET_FREEBSD_NR_aio_write 236
#define TARGET_FREEBSD_NR_lio_listio 237
#define TARGET_FREEBSD_NR_getdents 238
#define TARGET_FREEBSD_NR_lchmod 239
#define TARGET_FREEBSD_NR_netbsd_lchown 240
#define TARGET_FREEBSD_NR_nanosleep 241
#define TARGET_FREEBSD_NR_ntp_gettime 242
#define TARGET_FREEBSD_NR_minherit 243
#define TARGET_FREEBSD_NR_rfork 244
#define TARGET_FREEBSD_NR_openbsd_poll 245
#define TARGET_FREEBSD_NR_issetugid 246
#define TARGET_FREEBSD_NR_lchown 247
#define TARGET_FREEBSD_NR_aio_read 248
#define TARGET_FREEBSD_NR_aio_write 249
#define TARGET_FREEBSD_NR_lio_listio 250
#define TARGET_FREEBSD_NR_getdents 251
#define TARGET_FREEBSD_NR_lchmod 252
#define TARGET_FREEBSD_NR_netbsd_lchown 253
#define TARGET_FREEBSD_NR_lutimes    276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat    278
#define TARGET_FREEBSD_NR_nfstat    279
#define TARGET_FREEBSD_NR_nlstat    280
#define TARGET_FREEBSD_NR_preadv    289
#define TARGET_FREEBSD_NR_pwritev   290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen    298
#define TARGET_FREEBSD_NR_fhstat    299
#define TARGET_FREEBSD_NR_modnext   300
#define TARGET_FREEBSD_NR_modstat   301
#define TARGET_FREEBSD_NR_modfnext  302
#define TARGET_FREEBSD_NR_modfind   303
#define TARGET_FREEBSD_NR_kldload   304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldnext   307
#define TARGET_FREEBSD_NR_kldstat   308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid    310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel   316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write    319
#define TARGET_FREEBSD_NR_olio_listio   320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR_getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam    327
#define TARGET_FREEBSD_NR_sched_getparam    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max   332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym    337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR_nmount 370
#define TARGET_FREEBSD_NR___mac_get_proc 371
#define TARGET_FREEBSD_NR___mac_set_proc 372
#define TARGET_FREEBSD_NR___mac_get_fd 373
#define TARGET_FREEBSD_NR___mac_set_fd 374
#define TARGET_FREEBSD_NR_kenv 375
#define TARGET_FREEBSD_NR_lchflags 376
#define TARGET_FREEBSD_NR_uuidgen 377
#define TARGET_FREEBSD_NR_sendfile 378
#define TARGET_FREEBSD_NR_mac_syscall 379
#define TARGET_FREEBSD_NR_fhstatfs 380
#define TARGET_FREEBSD_NR_nhstatfs 381
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR_sigaction 415
#define TARGET_FREEBSD_NR_signreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR审计 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 473
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_setaffinity 487
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_ftruncate 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_mdsetat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get  506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl  510
#define TARGET_FREEBSD_NR_msgctl  511
#define TARGET_FREEBSD_NR_shmctl  512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new  514
#define TARGET_FREEBSD_NR_cap_getrights  515
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork  518
#define TARGET_FREEBSD_NR_pdkill  519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect  522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct    525
#define TARGET_FREEBSD_NR_rctl_get_rules  526
#define TARGET_FREEBSD_NR_rctl_get_limits   527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate   530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
 * System call numbers.
 */

/* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_geteuid     24
#define TARGET_OPENBSD_NR_ptrace      25
#define TARGET_OPENBSD_NR_recvmsg     26
#define TARGET_OPENBSD_NR_recmmsg     27
#define TARGET_OPENBSD_NR_recvfrom    28
#define TARGET_OPENBSD_NR_accept      29
#define TARGET_OPENBSD_NR_access      30
#define TARGET_OPENBSD_NR_getppid     31
#define TARGET_OPENBSD_NR_chflags     33
#define TARGET_OPENBSD_NR_fchflags    34
#define TARGET_OPENBSD_NR_sync        35
#define TARGET_OPENBSD_NR_kill        36
#define TARGET_OPENBSD_NR_getppid     37
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_geteuid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_getlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_vfork       52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_linux       62
#define TARGET_OPENBSD_NR_execve      63
#define TARGET_OPENBSD_NR_umask       64
#define TARGET_OPENBSD_NR_chroot      65
#define TARGET_OPENBSD_NR_munmap      66
#define TARGET_OPENBSD_NR_vfork       67
#define TARGET_OPENBSD_NR_sbrk        68
#define TARGET_OPENBSD_NR_sstk        69
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     38
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_geteuid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_getlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_vfork       52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       62
#define TARGET_OPENBSD_NR_sbrk        63
#define TARGET_OPENBSD_NR_sstk        64
#define TARGET_OPENBSD_NR_munmap      65
#define TARGET_OPENBSD_NR_mprotect  74
#define TARGET_OPENBSD_NR_madvise   75
#define TARGET_OPENBSD_NR_mincore    78
#define TARGET_OPENBSD_NR_getgroups  79
#define TARGET_OPENBSD_NR_setgroups  80
#define TARGET_OPENBSD_NR_getpgpr    81
#define TARGET_OPENBSD_NR_setpgid    82
#define TARGET_OPENBSD_NR_getitimer  83
#define TARGET_OPENBSD_NR_setitimer  86
#define TARGET_OPENBSD_NR_dup2       90
#define TARGET_OPENBSD_NR_fcntl      92
#define TARGET_OPENBSD_NR_select     93
#define TARGET_OPENBSD_NR_fsync      95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket     97
#define TARGET_OPENBSD_NR_connect    98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn  103
#define TARGET_OPENBSD_NR_bind       104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen     106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage  117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv      120
#define TARGET_OPENBSD_NR_writev     121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename      128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread      173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_ftimes 205
#define TARGET_OPENBSD_NR_getpgid 206
#define TARGET_OPENBSD_NR_xfspioctl 207
#define TARGET_OPENBSD_NR_semget 208
#define TARGET_OPENBSD_NR_msgget 209
#define TARGET_OPENBSD_NR_msgsnd 210
#define TARGET_OPENBSD_NR_msgrcv 211
#define TARGET_OPENBSD_NR_shmat 212
#define TARGET_OPENBSD_NR_shmdt 213
#define TARGET_OPENBSD_NR_clock_gettime 214
#define TARGET_OPENBSD_NR_clock_settime 215
#define TARGET_OPENBSD_NR_clock_getres 216
#define TARGET_OPENBSD_NR_nanosleep 217
#define TARGET_OPENBSD_NR_minherit 218
#define TARGET_OPENBSD_NR_rfork 219
#define TARGET_OPENBSD_NR_poll 220
#define TARGET_OPENBSD_NR_issetugid 221
#define TARGET_OPENBSD_NR_lchown 222
#define TARGET_OPENBSD_NR_getsid 223
#define TARGET_OPENBSD_NR_msync 224
#define TARGET_OPENBSD_NR_pipe 225
#define TARGET_OPENBSD_NR_fhopen 226
#define TARGET_OPENBSD_NR_preadv 227
#define TARGET_OPENBSD_NR_pwritev 228
#define TARGET_OPENBSD_NR_kqueue 229
#define TARGET_OPENBSD_NR_kevent 230
#define TARGET_OPENBSD_NR_clock_gettime 231
#define TARGET_OPENBSD_NR_clock_settimeout 232
#define TARGET_OPENBSD_NR_clock_getres 233
#define TARGET_OPENBSD_NR_nanosleep 234
#define TARGET_OPENBSD_NR_minherit 235
#define TARGET_OPENBSD_NR_rfork 236
#define TARGET_OPENBSD_NR_poll 237
#define TARGET_OPENBSD_NR_issetugid 238
#define TARGET_OPENBSD_NR_lchown 239
#define TARGET_OPENBSD_NR_getsid 240
#define TARGET_OPENBSD_NR_msync 241
#define TARGET_OPENBSD_NR_pipe 242
#define TARGET_OPENBSD_NR_fhopen 243
#define TARGET_OPENBSD_NR_preadv 244
#define TARGET_OPENBSD_NR_pwritev 245
#define TARGET_OPENBSD_NR_kqueue 246
#define TARGET_OPENBSD_NR_kevent 247
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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```c
#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDeadLK          11              /* Resource deadlock avoided */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGETEFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL            22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
#define TARGET_EMLINK           31              /* Too many links */
#define TARGET_EPIPE            32              /* Broken pipe */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */
```
/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGMISMATCH 74 /* Program version wrong */
#define TARGET_EPROCLIM 75 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 76 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76  /* Bad procedure for program */

#define TARGET_ENOLCK 77  /* No locks available */
#define TARGET_ENOSYS 78  /* Function not implemented */

#define TARGET_EFTYPE 79  /* Inappropriate file type or format */
#define TARGET_EAUTH 80  /* Authentication error */
#define TARGET_ENEEDAUTH 81  /* Need authenticator */
#define TARGET_EIPSEC 82  /* IPsec processing failure */
#define TARGET_ENOATTR 83  /* Attribute not found */
#define TARGET_EILSEQ 84  /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85  /* No medium found */
#define TARGET_EMEDIUMTYPE 86  /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87  /* Conversion overflow */
#define TARGET_ECANCELED 88  /* Operation canceled */
#define TARGET_EIDRM 89  /* Identifier removed */
#define TARGET_ENOMSG 90  /* No message of desired type */
#define TARGET_ELAST 90  /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compact_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compact_20_getfsstat 18
#define TARGET_NETBSD_NR_compact_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compact_40_mount 21
#define TARGET_NETBSD_NR_unmount        22
#define TARGET_NETBSD_NR_setuid          23
#define TARGET_NETBSD_NR_getuid          24
#define TARGET_NETBSD_NR_geteuid         24
#define TARGET_NETBSD_NR_ptrace          26
#define TARGET_NETBSD_NR_recvmsg         27
#define TARGET_NETBSD_NR_sendmsg         28
#define TARGET_NETBSD_NR_recvfrom        29
#define TARGET_NETBSD_NR_accept          30
#define TARGET_NETBSD_NR_getpeername     31
#define TARGET_NETBSD_NR_getsockname     32
#define TARGET_NETBSD_NR_access          33
#define TARGET_NETBSD_NR_chflags         34
#define TARGET_NETBSD_NR_fchflags        35
#define TARGET_NETBSD_NR_sync            36
#define TARGET_NETBSD_NR_kill            37
#define TARGET_NETBSD_NR_compat_43_stat43   38
#define TARGET_NETBSD_NR_getppid         39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup             41
#define TARGET_NETBSD_NR_pipe            42
#define TARGET_NETBSD_NR_getegid         43
#define TARGET_NETBSD_NR_profil          44
#define TARGET_NETBSD_NR_ktrace          45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid          47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin       49
#define TARGET_NETBSD_NR___setlogin       50
#define TARGET_NETBSD_NR_acct            51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_signalstack13     53
#define TARGET_NETBSD_NR_ioctl           54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke          56
#define TARGET_NETBSD_NR_symlink         57
#define TARGET_NETBSD_NR_readlink        58
#define TARGET_NETBSD_NR_execve          59
#define TARGET_NETBSD_NR_umask           60
#define TARGET_NETBSD_NR_chroot          61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize      64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork           66
#define TARGET_NETBSD_NR_sbrk            69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl       92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec  108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage   117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkdir 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_rmdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 159
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 160
#define TARGET_NETBSD_NR_compat_09_osetdomainname 161
#define TARGET_NETBSD_NR_compat_09_ouname 162
#define TARGET_NETBSD_NR_sysarch 163
#define TARGET_NETBSD_NR_compat_10_osemsys 164
#define TARGET_NETBSD_NR_compat_10_omsgsys 165
#define TARGET_NETBSD_NR_compat_10_oshmsys 166
#define TARGET_NETBSD_NR_pread 167
#define TARGET_NETBSD_NR_pwrite 168
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 169
#define TARGET_NETBSD_NR_compat_30_ntp_adjtime 170
#define TARGET_NETBSD_NR_setgid 171
#define TARGET_NETBSD_NR_setegid 172
#define TARGET_NETBSD_NR_seteuid 173
#define TARGET_NETBSD_NR_lfs_bmapv 174
#define TARGET_NETBSD_NR_lfs_markv 175
#define TARGET_NETBSD_NR_lfs_segwait 176
#define TARGET_NETBSD_NR_lfs_bmapv 177
#define TARGET_NETBSD_NR_lfs_markv 178
#define TARGET_NETBSD_NR_lfs_segwait 179
#define TARGET_NETBSD_NR_lfs_segclean 180
#define TARGET_NETBSD_NR_lfs_segwait 181
#define TARGET_NETBSD_NR_lfs_segwait 182
#define TARGET_NETBSD_NR_lfs_segwait 183
```
#define TARGET_NETBSD_NR__ksem_open  248
#define TARGET_NETBSD_NR__ksem_unlink 249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post  251
#define TARGET_NETBSD_NR__ksem_wait  252
#define TARGET_NETBSD_NR__ksem_trywait 253
#define TARGET_NETBSD_NR__ksem_getvalue 254
#define TARGET_NETBSD_NR__ksem_destroy 255
#define TARGET_NETBSD_NR__ksem_open 257
#define TARGET_NETBSD_NR__ksem_close 258
#define TARGET_NETBSD_NR__ksem_unlink 259
#define TARGET_NETBSD_NR__ksem_getattr 260
#define TARGET_NETBSD_NR__ksem_notify 261
#define TARGET_NETBSD_NR__ksem_getattr 262
#define TARGET_NETBSD_NR__ksem_send  263
#define TARGET_NETBSD_NR__ksem_receive 264
#define TARGET_NETBSD_NR__ksem_timedsend 265
#define TARGET_NETBSD_NR__ksem_timedreceive 266
#define TARGET_NETBSD_NR__posix_rename 270
#define TARGET_NETBSD_NR__swapctl  271
#define TARGET_NETBSD_NR__compat_30_getdents 272
#define TARGET_NETBSD_NR__minherit  273
#define TARGET_NETBSD_NR__lchmod  274
#define TARGET_NETBSD_NR__lchown  275
#define TARGET_NETBSD_NR__lutimes  276
#define TARGET_NETBSD_NR__msync13  277
#define TARGET_NETBSD_NR__compat_30_stat13 278
#define TARGET_NETBSD_NR__compat_30_fstat13 279
#define TARGET_NETBSD_NR__compat_30_lstat13 280
#define TARGET_NETBSD_NR__compat_30_fchown 284
#define TARGET_NETBSD_NR__compat_30___lchown 285
#define TARGET_NETBSD_NR_getsid  286
#define TARGET_NETBSD_NR___clone     287
#define TARGET_NETBSD_NR__fkrace  288
#define TARGET_NETBSD_NR__getcwd    289
#define TARGET_NETBSD_NR__writev   290
#define TARGET_NETBSD_NR__compat_16___sigaction14     291
#define TARGET_NETBSD_NR__compat_16___sigpending14    292
#define TARGET_NETBSD_NR__compat_16___sigprocmask14    293
#define TARGET_NETBSD_NR__compat_16___sigsuspend14    294
#define TARGET_NETBSD_NR__compat_16___sigreturn14     295
#define TARGET_NETBSD_NR__compat_30___fchroot       297
#define TARGET_NETBSD_NR__compat_30___fchown        298
#define TARGET_NETBSD_NR__compat_30___fstat         299
```

#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR___semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmatctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR___lwp_create 309
#define TARGET_NETBSD_NR___lwp_exit 310
#define TARGET_NETBSD_NR___lwp_self 311
#define TARGET_NETBSD_NR___lwp_wait 312
#define TARGET_NETBSD_NR___lwp_suspend 313
#define TARGET_NETBSD_NR___lwp_continue 314
#define TARGET_NETBSD_NR___lwp_wakeup 315
#define TARGET_NETBSD_NR___lwp_getprivate 316
#define TARGET_NETBSD_NR___lwp_setprivate 317
#define TARGET_NETBSD_NR___lwp_kill 318
#define TARGET_NETBSD_NR___lwp_detach 319
#define TARGET_NETBSD_NR___lwp_park 320
#define TARGET_NETBSD_NR___lwp_unpark 321
#define TARGET_NETBSD_NR___lwp_unpark_all 322
#define TARGET_NETBSD_NR___lwp_setname 323
#define TARGET_NETBSD_NR___lwp_getname 324
#define TARGET_NETBSD_NR___lwp_ctl 325
#define TARGET_NETBSD_NR___sigaction_sigtramp 326
#define TARGET_NETBSD_NR___pmc_get_info 327
#define TARGET_NETBSD_NR___pmc_control 328
#define TARGET_NETBSD_NR___rasctl 329
#define TARGET_NETBSD_NR___kqueue 330
#define TARGET_NETBSD_NR___kevent 331
#define TARGET_NETBSD_NR___sched_setparam 332
#define TARGET_NETBSD_NR___sched_getparam 333
#define TARGET_NETBSD_NR___sched_setaffinity 334
#define TARGET_NETBSD_NR___sched_getaffinity 335
#define TARGET_NETBSD_NR_sched_yield 336
#define TARGET_NETBSD_NR_fsync_range 337
#define TARGET_NETBSD_NR_uuidgen 338
#define TARGET_NETBSD_NR_getvfsstat 339
#define TARGET_NETBSD_NR_statvfs1 340

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#define TARGET_NETBSD_NR___mount50   410
#define TARGET_NETBSD_NR_mremap      411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy   413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR___pset_bind  415
#define TARGET_NETBSD_NR___posix_fadvise50   416

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The upstream source was downloaded from:

git://git.qemu.org/qemu.git

All the binary blobs without sources contained in the pc-bios/ directory (*.dtb, *.bin, *rom, openbios-*, palcode-clipper) in the original upstream git repository have been removed starting from Debian package version 0.6.0.dfsg.1-1. Those roms which are free can be found in split packages of their own, represented accordingly in the dependency relationships.

Upstream Author:

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 * FreeBSD strace list
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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd,   "__acl_aclcheck_fd", "%s(\%d, \%d, \%#x)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("\%s\", \%d, \%#x)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("\%s\", \%d, \%#x)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_delete_fd,     "__acl_delete_fd", "%s(\%d, \%d)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_delete_file,   "__acl_delete_file", "%s("\%s\", \%d)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_delete_link,   "__acl_delete_link", "%s("\%s\", \%d)\", NULL, NULL },
 { TARGET_FREEBSD_NR___acl_get_fd,        "__acl_get_fd", "%s(\%d, \%d, \%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(""%s",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(""%s", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(""%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(""%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(""%s", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(""%s", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(""%s", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(""%s", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(""%s", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(""%s", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(%s,%o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfd, "signalfd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfd, "signalfd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstat, "sstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(%s,%p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_strerror, "strerror", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_strerror, "strerror", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)%", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)%", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)%", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)%", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)%", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(""%s")%", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)%", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)%", NULL, NULL },
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4  7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_gethostname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_gettime 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod    124
   /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename    128
   /* 129 is old truncate */
   /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock    131
#define TARGET_FREEBSD_NR_mkfifo    132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair  135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
   /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime  140
   /* 141 is old getpeername */
   /* 142 is old gethostid */
   /* 143 is old sethostid */
   /* 144 is old getrlimit */
   /* 145 is old setrlimit */
   /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
   /* 149 is old quota */
   /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_freebsd4_statfs   157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh    160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname    162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname    163
#define TARGET_FREEBSD_NR_freebsd4_uname    164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio    166
#define TARGET_FREEBSD_NR_semsys    169
#define TARGET_FREEBSD_NR_msgsys    170
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread   173
#define TARGET_FREEBSD_NR_freebsd6_pwrite  174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6__syscall 199
#define TARGET_FREEBSD_NR_freebsd6_seek 200
#define TARGET_FREEBSD_NR_freebsd6_truncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7__msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7__shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lstatio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_pwritev 289
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321

/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR___mac_get_proc 370
#define TARGET_FREEBSD_NR___mac_set_proc 371
#define TARGET_FREEBSD_NR___mac_get_fd 372
#define TARGET_FREEBSD_NR___mac_set_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 375
#define TARGET_FREEBSD_NR_afs3_syscall 376
#define TARGET_FREEBSD_NR__nmount 377
#define TARGET_FREEBSD_NR__mac_get_proc 378
#define TARGET_FREEBSD_NR__mac_set_proc 379
#define TARGET_FREEBSD_NR__mac_get_fd 380
#define TARGET_FREEBSD_NR__mac_set_fd 381
#define TARGET_FREEBSD_NR_kernel_file 382
#define TARGET_FREEBSD_NR_kernel_set_fd 383
#define TARGET_FREEBSD_NR__kenv 384
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#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execlpe 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
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/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sync 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename      128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_getgid      181
#define TARGET_OPENBSD_NR_setgid      182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait       187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirent    196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgsndv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_getresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
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#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
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#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fhstatfs 308
#define TARGET_OPENBSD_NR_fstatfs 309

/* syscall flags from machine/trap.h */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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@(#)errno.h 8.5 (Berkeley) 1/21/94

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */

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```c
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET_EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
```
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>TARGET_ENOBUFS: No buffer space available</td>
</tr>
<tr>
<td>56</td>
<td>TARGET_EISCONN: Socket is already connected</td>
</tr>
<tr>
<td>57</td>
<td>TARGET_ENOTCONN: Socket is not connected</td>
</tr>
<tr>
<td>58</td>
<td>TARGET_ESHUTDOWN: Can't send after socket shutdown</td>
</tr>
<tr>
<td>59</td>
<td>TARGET_ETOOMANYREFS: Too many references: can't splice</td>
</tr>
<tr>
<td>60</td>
<td>TARGET_ETIMEDOUT: Operation timed out</td>
</tr>
<tr>
<td>61</td>
<td>TARGET_ECONNREFUSED: Connection refused</td>
</tr>
<tr>
<td>62</td>
<td>TARGET_ELOOP: Too many levels of symbolic links</td>
</tr>
<tr>
<td>63</td>
<td>TARGET_ENAMETOOLONG: File name too long</td>
</tr>
<tr>
<td>64</td>
<td>TARGET_EHOSTDOWN: Host is down</td>
</tr>
<tr>
<td>65</td>
<td>TARGET_EHOSTUNREACH: No route to host</td>
</tr>
<tr>
<td>66</td>
<td>TARGET_ENOTEMPTY: Directory not empty</td>
</tr>
<tr>
<td>67</td>
<td>TARGET_EPROCLIM: Too many processes</td>
</tr>
<tr>
<td>68</td>
<td>TARGET_EUSERS: Too many users</td>
</tr>
<tr>
<td>69</td>
<td>TARGET_EDQUOT: Disk quota exceeded</td>
</tr>
<tr>
<td>70</td>
<td>TARGET_ESTALE: Stale NFS file handle</td>
</tr>
<tr>
<td>71</td>
<td>TARGET_EREMOTE: Too many levels of remote in path</td>
</tr>
<tr>
<td>72</td>
<td>TARGET_EBADRPC: RPC struct is bad</td>
</tr>
<tr>
<td>73</td>
<td>TARGET_ERPCMISMATCH: RPC version wrong</td>
</tr>
<tr>
<td>74</td>
<td>TARGET_EPROGUNAVAIL: RPC prog. not avail</td>
</tr>
<tr>
<td>75</td>
<td>TARGET_EPROGMISMATCH: Program version wrong</td>
</tr>
<tr>
<td>76</td>
<td>TARGET_EPROCUNAVAIL: Bad procedure for program</td>
</tr>
<tr>
<td>77</td>
<td>TARGET_ENOLCK: No locks available</td>
</tr>
<tr>
<td>78</td>
<td>TARGET_ENOSYS: Function not implemented</td>
</tr>
<tr>
<td>79</td>
<td>TARGET_EFTYPE: Inappropriate file type or format</td>
</tr>
<tr>
<td>80</td>
<td>TARGET_EAUTH: Authentication error</td>
</tr>
<tr>
<td>81</td>
<td>TARGET_ENEEDAUTH: Need authenticator</td>
</tr>
<tr>
<td>82</td>
<td>TARGET_EIPSEC: Ipsec processing failure</td>
</tr>
<tr>
<td>83</td>
<td>TARGET_ENOATTR: Attribute not found</td>
</tr>
<tr>
<td>84</td>
<td>TARGET_EILSEQ: Illegal byte sequence</td>
</tr>
<tr>
<td>85</td>
<td>TARGET_ENOMEDIUM: No medium found</td>
</tr>
<tr>
<td>86</td>
<td>TARGET_EMEDIUMTYPE: Wrong Medium Type</td>
</tr>
<tr>
<td>87</td>
<td>TARGET_EOVERFLOW: Conversion overflow</td>
</tr>
<tr>
<td>88</td>
<td>TARGET_ECANCELED: Operation canceled</td>
</tr>
<tr>
<td>89</td>
<td>TARGET_EIDRM: Identifier removed</td>
</tr>
<tr>
<td>90</td>
<td>TARGET_ENOMSG: No message of desired type</td>
</tr>
<tr>
<td>90</td>
<td>TARGET_ELAST: Must be equal largest errno</td>
</tr>
</tbody>
</table>

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */
/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall  0
#define TARGET_NETBSD_NR_exit     1
#define TARGET_NETBSD_NR_fork     2
#define TARGET_NETBSD_NR_read     3
#define TARGET_NETBSD_NR_write    4
#define TARGET_NETBSD_NR_open     5
#define TARGET_NETBSD_NR_close    6
#define TARGET_NETBSD_NR_wait4    7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link      9
#define TARGET_NETBSD_NR_unlink   10
#define TARGET_NETBSD_NR_chdir    12
#define TARGET_NETBSD_NR_fchdir   13
#define TARGET_NETBSD_NR_mknod    14
#define TARGET_NETBSD_NR_chmod    15
#define TARGET_NETBSD_NR_chown    16
#define TARGET_NETBSD_NR_break    17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek   19
#define TARGET_NETBSD_NR_getpid   20
#define TARGET_NETBSD_NR_getppid  39
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount  22
#define TARGET_NETBSD_NR_setuid   23
#define TARGET_NETBSD_NR_getuid   24
#define TARGET_NETBSD_NR_geteuid  25
#define TARGET_NETBSD_NR_ptrace   26
#define TARGET_NETBSD_NR_recvmsg  27
#define TARGET_NETBSD_NR_sendmsg  28
#define TARGET_NETBSD_NR_recvfrom 32
#define TARGET_NETBSD_NR_access   33
#define TARGET_NETBSD_NR_chflags  34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync     36
#define TARGET_NETBSD_NR_kill     37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid  39
#define TARGET_NETBSD_NR_compat_43_lstat43 40

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#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
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#define TARGET_NETBSD_NR_getgid 47
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*/
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@(#)mman.h 8.2 (Berkeley) 1/9/95
$FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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*
*      @(#)mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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That's all there is to it!

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
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#define TARGET_NETBSD_NR_compat_43_ocreat 8
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#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_fchdir 13
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(d,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_syncthreads, "syncthreads", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%d, %d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d)", NULL, NULL },
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The upstream source was downloaded from:

git://git.qemu.org/qemu.git

All the binary blobs without sources contained in the pc-bios directory (*.dtb, *.bin, *rom, openbios-*, palcode-clipper) in the original upstream git repository have been removed starting from Debian package version 0.6.0.dfsg.1-1. Those roms which are free can be found in split packages of their own, represented accordingly in the dependency relationships.

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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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- TARGET_FREEBSD_NR_acl_delete_file, "_acl_delete_file", "%s(\%s\", %d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acl_delete_link, "_acl_delete_link", "%s(\%s\", %d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acl_get_fd, "_acl_get_fd", "%s(\%s\", %d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acl_get_file, "_acl_get_file", "%s(\%s\", %d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acl_get_link, "_acl_get_link", "%s(\%s\", %d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acl_set_fd, "_acl_set_fd", "%s(\%s\", %d, %d, \%d)\", NULL, NULL;
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- TARGET_FREEBSD_NR_semctl, "_semctl", NULL, NULL, NULL;
- TARGET_FREEBSD_NR_syscall, "_syscall", NULL, NULL, NULL;
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- TARGET_FREEBSD_NR_umtx_op, "_umtx_op", "%s(\%s\", %d, \%d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_accept, "accept", "%s(\%s\", %d, \%d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_access, "access", "%s(\%s\", %d, \%d, \%d)\", NULL, NULL;
- TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL;
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- TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL;
- TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL;
- TARGET_FREEBSD_NR_chdir, "chdir", "%s(\%s\")\", NULL, NULL;
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- TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL;
- TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL;
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- TARGET_FREEBSD_NR_close, "close", "%s(\%d\")\", NULL, NULL;
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- TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL;
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- TARGET_FREEBSD_NR_exect, "exect", "%s(\%s\", %d)\", NULL, NULL;
- TARGET_FREEBSD_NR_exit, "exit", "%s(\%d\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\%s\", %d, \%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(\%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(\%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\%s\", %d, \%s\")\", NULL, NULL;
- TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s(\%s\", %d, \%s\")\", NULL, NULL;
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(\d, %#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(\d, \d, \d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(\d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(\d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(\d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()\", NULL, NULL },
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{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(""%s"","%s")", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(""%s",%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_1seek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_1stat, "1stat", "%s(""%s",%p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mchown, "mchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s",%#o,%#x)"", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(""%#x",%#x,%#d)"", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msfsnd, "msfsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msfsnc, "msfsnc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s",%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "prof", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%#d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(""%s",%p,%#d)"", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
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TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL,
TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL,
TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL,
TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL,
TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL,
TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL,
TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL,
TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL,
TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL,
TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL,
TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL,
TARGET_FREEBSD_NR_sendmsg, "sendmsg", "sendmsg", NULL, NULL, NULL,
TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL,
TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setpgid, "setpgid", "%s", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setssockopt, "setssockopt", NULL, NULL, NULL,
TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL,
TARGET_FREEBSD_NR_socketpair, "socketpair", "%s(%d,%d,%d)", NULL, NULL, NULL,
TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL,
TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL, NULL,
TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL, NULL,
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", "NULL", NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockopt 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_prof 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is obsolete vread */
#define TARGET_FREEBSD_NR_mmap 64
#define TARGET_FREEBSD_NR_mmap 65
#define TARGET_FREEBSD_NR_mmap 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgprp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quotactl */
/* 150 is old getdomainname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_setfib 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_sha512 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_mnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 343
#define TARGET_FREEBSD_NR_sigtimedwait 344
#define TARGET_FREEBSD_NR_sigwaitinfo 345
#define TARGET_FREEBSD_NR___acl_get_file 346
#define TARGET_FREEBSD_NR___acl_set_file 347
#define TARGET_FREEBSD_NR___acl_get_fd 348
#define TARGET_FREEBSD_NR___acl_set_fd 349
#define TARGET_FREEBSD_NR___acl_delete_file 350
#define TARGET_FREEBSD_NR___acl_delete_fd 351
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_set_fd 358
#define TARGET_FREEBSD_NR_extattr_get_fd 359
#define TARGET_FREEBSD_NR_extattr_delete_fd 360
#define TARGET_FREEBSD_NR___setugid 361
#define TARGET_FREEBSD_NR_eaccess 362
#define TARGET_FREEBSD_NR_afs3_syscall 363
#define TARGET_FREEBSD_NR_nmount 364
#define TARGET_FREEBSD_NR___mac_get_proc 365
#define TARGET_FREEBSD_NR___mac_set_proc 366
#define TARGET_FREEBSD_NR___mac_get_fd 367
#define TARGET_FREEBSD_NR___mac_set_fd 368
#define TARGET_FREEBSD_NR_aio_waitcomplete 369
#define TARGET_FREEBSD_NR_getresuid 370
#define TARGET_FREEBSD_NR_getresgid 371
#define TARGET_FREEBSD_NR_kqueue 372
#define TARGET_FREEBSD_NR_kevent 373
#define TARGET_FREEBSD_NR_extattr_set_fd 374
#define TARGET_FREEBSD_NR_extattr_get_fd 375
#define TARGET_FREEBSD_NR_extattr_delete_fd 376
#define TARGET_FREEBSD_NR___setgid 377
#define TARGET_FREEBSD_NR_eaccess 378
#define TARGET_FREEBSD_NR_afs3_syscall 379
#define TARGET_FREEBSD_NR_nmount 380
#define TARGET_FREEBSD_NR___mac_get_proc 381
#define TARGET_FREEBSD_NR___mac_set_proc 382
#define TARGET_FREEBSD_NR___mac_get_fd 383
#define TARGET_FREEBSD_NR___mac_set_fd 384
#define TARGET_FREEBSD_NR___setuid 385
#define TARGET_FREEBSD_NR___setgid 386
#define TARGET_FREEBSD_NR___setuid 387
#define TARGET_FREEBSD_NR_mac_set_fd 388
#define TARGET_FREEBSD_NR_mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_lstatfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR_mac_get_pid 409
#define TARGET_FREEBSD_NR_mac_get_link 410
#define TARGET_FREEBSD_NR_mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR_mac_execve 415
#define TARGET_FREEBSD_NR_signaction 416
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR_acl_get_link 425
#define TARGET_FREEBSD_NR_acl_set_link 426
#define TARGET_FREEBSD_NR_acl_delete_link 427
#define TARGET_FREEBSD_NR_acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR_umtx_lock 434
#define TARGET_FREEBSD_NR_umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
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#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_setaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctld 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat  493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat  495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat  498
#define TARGET_FREEBSD_NR_openat   499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl  510
#define TARGET_FREEBSD_NR_msgctl    511
#define TARGET_FREEBSD_NR_shmctl    512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new   514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_getmode 516
#define TARGET_FREEBSD_NR_cap_new   517
#define TARGET_FREEBSD_NR_pdfork    518
#define TARGET_FREEBSD_NR_pdkill    519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect   522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct  525
#define TARGET_FREEBSD_NR_rctl_get_rules  526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate  530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL  532

/*     $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $     */

/*     */
* System call numbers.
*
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup         41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl      54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setssockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segelean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirenties 196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspiocctl  208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fshopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_lstat 292
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR___shmctl 296
#define TARGET_OPENBSD_NR___msggetl 297
#define TARGET_OPENBSD_NR___sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR___thrsleep 300
#define TARGET_OPENBSD_NR___thrwakeup 301
#define TARGET_OPENBSD_NR___threxit 302
#define TARGET_OPENBSD_NR___thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR___adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR___statfs 307
#define TARGET_OPENBSD_NR___fstatfs 308
#define TARGET_OPENBSD_NR___fstatfstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */
*/
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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/*  $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $  */
/*  $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $  */

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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM        1               /* Operation not permitted */
#define TARGET_ENOENT       2               /* No such file or directory */
#define TARGET_ESRCH        3               /* No such process */
#define TARGET_EINTR        4               /* Interrupted system call */
#define TARGET_EIO          5               /* Input/output error */
#define TARGET_ENXIO        6               /* Device not configured */
#define TARGET_E2BIG        7               /* Argument list too long */
#define TARGET_ENOEXEC      8               /* Exec format error */
#define TARGET_EBADF        9               /* Bad file descriptor */
#define TARGET_ECHILD       10              /* No child processes */
#define TARGET_EDEADLK      11              /* Resource deadlock avoided */
                /* 11 was EAGAIN */
#define TARGET_ENOMEM       12              /* Cannot allocate memory */
#define TARGET_EACCES       13              /* Permission denied */
#define TARGETEFAULT       14              /* Bad address */
#define TARGET_ENOTBLK      15              /* Block device required */
#define TARGET_EBUSY        16              /* Device busy */
#define TARGET_EEXIST       17              /* File exists */
#define TARGET_EXDEV        18              /* Cross-device link */
#define TARGET_ENODEV       19              /* Operation not supported by device */
#define TARGET_ENOTDIR      20              /* Not a directory */
#define TARGET_EISDIR       21              /* Is a directory */
#define TARGET_EINVAL       22              /* Invalid argument */
#define TARGET_ENFILE       23              /* Too many open files in system */
#define TARGET_EMFILE       24              /* Too many open files */
#define TARGET_ENOTTY       25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY      26              /* Text file busy */
#define TARGET_EFBIG        27              /* File too large */
#define TARGET_ENOSPC       28              /* No space left on device */
#define TARGET_ESPIPE       29              /* Illegal seek */
#define TARGET_EROFS        30              /* Read-only file system */
#define TARGET_EMLINK       31              /* Too many links */
#define TARGET_EPIPE        32              /* Broken pipe */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_EHATDN 58 /* Can't send after socket shutdown */
#define TARGET_TOO_MANY_REFERENCES 59 /* Too many references: can't splice */
#define TARGET_ETimedOUT 60 /* Operation timed out */
#define TARGET_ECONNUNCONNECTED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGETENAME_TOO_LONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */

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/* Network File System */
#define TARGET_ESTALE  70 /* Stale NFS file handle */
#define TARGET_EREMOTE  71 /* Too many levels of remote in path */
#define TARGET_EBADRPC  72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH  73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL  74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH  75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL  76 /* Bad procedure for program */

#define TARGET_ENOLCK  77 /* No locks available */
#define TARGET_ENOSYS  78 /* Function not implemented */

#define TARGET_EFTYPE  79 /* Inappropriate file type or format */
#define TARGET_EAUTH  80 /* Authentication error */
#define TARGET_ENEEDAUTH  81 /* Need authenticator */
#define TARGET_EIPSEC  82 /* IPsec processing failure */
#define TARGET_ENOATTR  83 /* Attribute not found */
#define TARGET_EILSEQ  84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM  85 /* No medium found */
#define TARGET_EMEDIUMTYPE  86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW  87 /* Conversion overflow */
#define TARGET_ECANCELED  88 /* Operation canceled */
#define TARGET_EIDRM  89 /* Identifier removed */
#define TARGET_ENOMSG  90 /* No message of desired type */
#define TARGET_ELAST  90 /* Must be equal largest errno */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall  0
#define TARGET_NETBSD_NR_exit  1
#define TARGET_NETBSD_NR_fork  2
#define TARGET_NETBSD_NR_read  3
#define TARGET_NETBSD_NR_write  4
#define TARGET_NETBSD_NR_open  5
#define TARGET_NETBSD_NR_close  6
#define TARGET_NETBSD_NR_wait  7
#define TARGET_NETBSD_NR_compat_43_ocreat  8
#define TARGET_NETBSD_NR_link  9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigpending13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 52
#define TARGET_NETBSD_NR___getlogin 53
#define TARGET_NETBSD_NR_ioc1 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink  57
#define TARGET_NETBSD_NR_readlink  58
#define TARGET_NETBSD_NR_execve   59
#define TARGET_NETBSD_NR_umask    60
#define TARGET_NETBSD_NR_chroot   61
#define TARGET_NETBSD_NR_compat_43_fstat43  62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork     66
#define TARGET_NETBSD_NR_sbrk      69
#define TARGET_NETBSD_NR_sstk      70
#define TARGET_NETBSD_NR_compat_43_ommap  71
#define TARGET_NETBSD_NR_vadvise   72
#define TARGET_NETBSD_NR_munmap    73
#define TARGET_NETBSD_NR_mprotect  74
#define TARGET_NETBSD_NR_madvise   75
#define TARGET_NETBSD_NR_mincore   78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp   81
#define TARGET_NETBSD_NR_setpgid   82
#define TARGET_NETBSD_NR_setpgid   82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer  86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2       90
#define TARGET_NETBSD_NR_fcntl      92
#define TARGET_NETBSD_NR_select     93
#define TARGET_NETBSD_NR_fsync      95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect   98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind      104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen    106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_setregid 124
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setsockopt 127
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12   188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries     196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek       199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
#define TARGET_NETBSD_NR_futimes     206
#define TARGET_NETBSD_NR_getpgid     207
#define TARGET_NETBSD_NR_reboot      208
#define TARGET_NETBSD_NR_poll       209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget      221
#define TARGET_NETBSD_NR_semop       222
#define TARGET_NETBSD_NR_semconfig   223
#define TARGET_NETBSD_NR_compat_14_msgctl    224
#define TARGET_NETBSD_NR_msgget      225
#define TARGET_NETBSD_NR_msgsnd      226
#define TARGET_NETBSD_NR_msgrcv      227
#define TARGET_NETBSD_NR_shmat       228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt       230
#define TARGET_NETBSD_NR_shmget      231
#define TARGET_NETBSD_NR_clock_gettime       232
#define TARGET_NETBSD_NR_clock_settime       233
#define TARGET_NETBSD_NR_clock_getres        234
#define TARGET_NETBSD_NR_timer_create        235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatsasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR__sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR__ksem_init 247
#define TARGET_NETBSD_NR__ksem_open 248
#define TARGET_NETBSD_NR__ksem_unlink 249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post 251
#define TARGET_NETBSD_NR__ksem_wait 252
#define TARGET_NETBSD_NR__ksem_trywait 253
#define TARGET_NETBSD_NR__ksem_getvalue 254
#define TARGET_NETBSD_NR__ksem_destroy 255
#define TARGET_NETBSD_NR__ksem_open 257
#define TARGET_NETBSD_NR__ksem_close 258
#define TARGET_NETBSD_NR__ksem_unlink 259
#define TARGET_NETBSD_NR__ksem_getattr 260
#define TARGET_NETBSD_NR__ksem_setattr 261
#define TARGET_NETBSD_NR__ksem_notify 262
#define TARGET_NETBSD_NR__ksem_send 263
#define TARGET_NETBSD_NR__ksem_receive 264
#define TARGET_NETBSD_NR__ksem_timedsend 265
#define TARGET_NETBSD_NR__ksem_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR__msync13 271
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_pread  289
#define TARGET_NETBSD_NR_pwrite  290
#define TARGET_NETBSD_NR__compat_16___sigaction14  291
#define TARGET_NETBSD_NR___sigpending14  292
#define TARGET_NETBSD_NR___sigprocmask14  293
#define TARGET_NETBSD_NR___sigsuspend14  294
#define TARGET_NETBSD_NR__compat_16___sigreturn14  295
#define TARGET_NETBSD_NR___getcwd  296
#define TARGET_NETBSD_NR_fchroot  297
#define TARGET_NETBSD_NR__compat_30_fhopen  298
#define TARGET_NETBSD_NR__compat_30_fhstat  299
#define TARGET_NETBSD_NR__compat_20_fhstatfs  300
#define TARGET_NETBSD_NR_____semct13  301
#define TARGET_NETBSD_NR____msgctl13  302
#define TARGET_NETBSD_NR___shmctl13  303
#define TARGET_NETBSD_NR_lchflags  304
#define TARGET_NETBSD_NR_issetugid  305
#define TARGET_NETBSD_NR_utrace  306
#define TARGET_NETBSD_NR_getcontext  307
#define TARGET_NETBSD_NR_setcontext  308
#define TARGET_NETBSD_NR__lwp_create 309
#define TARGET_NETBSD_NR__lwp_exit  310
#define TARGET_NETBSD_NR__lwp_self  311
#define TARGET_NETBSD_NR__lwp_wait  312
#define TARGET_NETBSD_NR__lwp_suspend  313
#define TARGET_NETBSD_NR__lwp_continue  314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate  316
#define TARGET_NETBSD_NR__lwp_setprivate  317
#define TARGET_NETBSD_NR__lwp_kill  318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park  320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all  322
#define TARGET_NETBSD_NR__lwp_setname  323
#define TARGET_NETBSD_NR__lwp_getname  324
#define TARGET_NETBSD_NR__lwp_ctl  325
#define TARGET_NETBSD_NR_sa_register  330
#define TARGET_NETBSD_NR_sa_stacks  331
#define TARGET_NETBSD_NR_sa_enable  332
#define TARGET_NETBSD_NR_sa_setconcurrency  333
#define TARGET_NETBSD_NR_sa_yield  334
#define TARGET_NETBSD_NR_sa_preempt  335
#define TARGET_NETBSD_NR_sa_unblockyield  336
#define TARGET_NETBSD_NR___sigaction_sigtarm  340
#define TARGET_NETBSD_NR_pmc_get_info  341
#define TARGET_NETBSD_NR_pmc_control  342
#define TARGET_NETBSD_NR_rasctl  343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR_stat30 387
#define TARGET_NETBSD_NR_fstat30 388
#define TARGET_NETBSD_NR_lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR_compat_30___fhstat30 391
#define TARGET_NETBSD_NR___socket30___fstat30 392
#define TARGET_NETBSD_NR___ntp_gettime30 393
#define TARGET_NETBSD_NR___socket30 394
#define TARGET_NETBSD_NR___getfh30 395
#define TARGET_NETBSD_NR___fhopen40 396
#define TARGET_NETBSD_NR___fhstatvfs140 397
#define TARGET_NETBSD_NR___fhstat40 398
#define TARGET_NETBSD_NR_aio_cancel 399
#define TARGET_NETBSD_NR_aio_error 400
#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
#define TARGET_NETBSD_NR_aio_return 403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write 405
#define TARGET_NETBSD_NR_lio_listio 406
#define TARGET_NETBSD_NR___mount50 410
#define TARGET_NETBSD_NR_mremap 411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR___posix_fadvise50 416

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 *
 *   @(#)mman.h     8.2 (Berkeley) 1/9/95
 *
 $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95 */

#undef TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#undef TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#undef TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#undef TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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 *
 * @(#)mman.h 8.1 (Berkeley) 6/2/93
 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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```
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* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK         0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*   @(#)mman.h     8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
* * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sipending13 52
#define TARGET_NETBSD_NR_compat_13_sigtinfo13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NRCompat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_gettimeofday 119
#define TARGET_NETBSD_NR_writev 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_osetrlimit 144
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 145
#define TARGET_NETBSD_NR_compat_43_0klllp 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 159
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_nftp_gettime 175
#define TARGET_NETBSD_NR_nftp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap         197
#define TARGET_NETBSD_NR___syscall    198
#define TARGET_NETBSD_NR_lseek        199
#define TARGET_NETBSD_NR_truncate     200
#define TARGET_NETBSD_NR_ftruncate    201
#define TARGET_NETBSD_NR___sysctl     202
#define TARGET_NETBSD_NR_mlock        203
#define TARGET_NETBSD_NR_munlock      204
#define TARGET_NETBSD_NR_undelete     205
#define TARGET_NETBSD_NR_futimes      206
#define TARGET_NETBSD_NR_getpgid      207
#define TARGET_NETBSD_NR_reboot       208
#define TARGET_NETBSD_NR_poll         209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget       221
#define TARGET_NETBSD_NR_semop        222
#define TARGET_NETBSD_NR_semconfig    223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget       225
#define TARGET_NETBSD_NR_msgsnd       226
#define TARGET_NETBSD_NR_msgrcv       227
#define TARGET_NETBSD_NR_shmat        228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt        230
#define TARGET_NETBSD_NR_shmget       231
#define TARGET_NETBSD_NR_clock_gettime       232
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/*
 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %#d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__accept, "accept", "%s(%d,%#x,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR__acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR__chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR__chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", "getpgid", NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
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<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>msgget</code></td>
<td>MSGGET</td>
</tr>
<tr>
<td><code>msgget</code></td>
<td>NULL NULL NULL</td>
</tr>
<tr>
<td><code>msgget</code></td>
<td>NULL NULL NULL</td>
</tr>
<tr>
<td><code>msgget</code></td>
<td>NULL NULL NULL</td>
</tr>
<tr>
<td><code>msgget</code></td>
<td>NULL NULL NULL</td>
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<tr>
<td><code>msgrcv</code></td>
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<td><code>msgsnd</code></td>
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<td><code>msync</code></td>
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<td><code>munlock</code></td>
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<td><code>munlockall</code></td>
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</tr>
<tr>
<td><code>munmap</code></td>
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<tr>
<td><code>nanosleep</code></td>
<td>NULL NULL NULL</td>
</tr>
<tr>
<td><code>nfssvc</code></td>
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<tr>
<td><code>open</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x,%#x&quot;,%d&quot;, NULL, NULL</td>
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<td><code>openat</code></td>
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<td><code>pathconf</code></td>
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<td><code>pread</code></td>
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<td><code>preadv</code></td>
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<td><code>profil</code></td>
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<tr>
<td><code>ptrace</code></td>
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<td><code>pwrite</code></td>
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<tr>
<td><code>pwritev</code></td>
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<td><code>quotactl</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>read</code></td>
<td>&quot;%s(%d,%#x,%d&quot;, NULL, NULL NULL</td>
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<td><code>readlink</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>readv</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<td><code>reboot</code></td>
<td>NULL NULL NULL</td>
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<td><code>recvfrom</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<td><code>recvmsg</code></td>
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<td><code>rename</code></td>
<td>&quot;%s(&quot;%s&quot;,&quot;%s&quot;)&quot;, NULL, NULL NULL</td>
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<td><code>revoke</code></td>
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<td><code>rfork</code></td>
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<td><code>rmdir</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<td><code>rtprio_thread</code></td>
<td>&quot;%s(%d, %d, %p&quot;, NULL, NULL NULL</td>
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<td><code>sbrk</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<td><code>sched_yield</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>select</code></td>
<td>NULL NULL NULL</td>
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<tr>
<td><code>semget</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>semop</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<td><code>sendmsg</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>sendto</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>setcontext</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>setegid</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
</tr>
<tr>
<td><code>seteuid</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>setgid</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
</tr>
<tr>
<td><code>setgroups</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
</tr>
<tr>
<td><code>setitimer</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
</tr>
<tr>
<td><code>setlogin</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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<tr>
<td><code>setpgrp</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
</tr>
<tr>
<td><code>setpriority</code></td>
<td>&quot;%s(&quot;%s&quot;,%#x&quot;,%d&quot;, NULL, NULL NULL</td>
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</tbody>
</table>
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit     1
#define TARGET_FREEBSD_NR_fork     2
#define TARGET_FREEBSD_NR_read     3
#define TARGET_FREEBSD_NR_write    4
#define TARGET_FREEBSD_NR_open     5
#define TARGET_FREEBSD_NR_close    6
#define TARGET_FREEBSD_NR_wait4    7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link     9
#define TARGET_FREEBSD_NR_unlink   10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir    12
#define TARGET_FREEBSD_NR_fchdir   13
#define TARGET_FREEBSD_NR_mknod    14
#define TARGET_FREEBSD_NR_chmod    15
#define TARGET_FREEBSD_NR_chown    16
#define TARGET_FREEBSD_NR_break    17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid   20
#define TARGET_FREEBSD_NR_mount    21
#define TARGET_FREEBSD_NRUnmount   22
#define TARGET_FREEBSD_NR_setuid   23
#define TARGET_FREEBSD_NR_getuid   24
#define TARGET_FREEBSD_NR_geteuid  25
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#define TARGET_FREEBSD_NR_recvmsg  27
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#define TARGET_FREEBSD_NR_getsockname 32
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#define TARGET_FREEBSD_NR_chflags  34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync     36
#define TARGET_FREEBSD_NR_kill     37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid  39
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#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigtstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgpr 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime  140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg  146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid  147
#define TARGET_FREEBSD_NR_quotactl  148
/* 149 is old quota */
/* 150 is old gethostname */
#define TARGET_FREEBSD_NR_nlm_syscall  154
#define TARGET_FREEBSD_NR_nfssvc  155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs  157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh  160
#define TARGET_FREEBSD_NR_getfh  161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname  162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname  163
#define TARGET_FREEBSD_NR_freebsd4_uname  164
#define TARGET_FREEBSD_NR_sysarch  165
#define TARGET_FREEBSD_NR_rtprio  166
#define TARGET_FREEBSD_NR_semsys  169
#define TARGET_FREEBSD_NR_msgsys  170
#define TARGET_FREEBSD_NR_shmsys  171
#define TARGET_FREEBSD_NR_freebsd6_pread  173
#define TARGET_FREEBSD_NR_freebsd6_pwrite  174
#define TARGET_FREEBSD_NR_setfib  175
#define TARGET_FREEBSD_NR_ntp_adjtime  176
#define TARGET_FREEBSD_NR_setgid  181
#define TARGET_FREEBSD_NR_seteuid  182
#define TARGET_FREEBSD_NR_seteuid  183
#define TARGET_FREEBSD_NR_stat  188
#define TARGET_FREEBSD_NR_fstat  189
#define TARGET_FREEBSD_NR_lstat  190
#define TARGET_FREEBSD_NR_pathconf  191
#define TARGET_FREEBSD_NR_setrlimit  194
#define TARGET_FREEBSD_NR_setrlimit  195
#define TARGET_FREEBSD_NR_setrlimit  196
#define TARGET_FREEBSD_NR_freebsd6_mmap  197
#define TARGET_FREEBSD_NR___syscall  198
#define TARGET_FREEBSD_NR_freebsd6_lseek  199
#define TARGET_FREEBSD_NR_freebsd6_ftruncate  200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate  201
#define TARGET_FREEBSD_NR___sysctl  202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_fhopen 276
#define TARGET_FREEBSD_NR_fhstat 277
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigtimewait 346
#define TARGET_FREEBSD_NR___acl_get_file 347

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#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_fstatfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR__umtx_op 453
#define TARGET_FREEBSD_NR___umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq unlink 462
#define TARGET_FREEBSD_NR_abort 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_vtruncate 478
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new     514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter   516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork   518
#define TARGET_FREEBSD_NR_pdkill    519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/* System call numbers. */

/* created from;  OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup         41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
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/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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@(#)errno.h 8.5 (Berkeley) 1/21/94

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<th>Value</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Operation not permitted</td>
</tr>
<tr>
<td>2</td>
<td>No such file or directory</td>
</tr>
<tr>
<td>3</td>
<td>No such process</td>
</tr>
<tr>
<td>4</td>
<td>Interrupted system call</td>
</tr>
<tr>
<td>5</td>
<td>Input/output error</td>
</tr>
<tr>
<td>6</td>
<td>Device not configured</td>
</tr>
<tr>
<td>7</td>
<td>Argument list too long</td>
</tr>
<tr>
<td>8</td>
<td>Exec format error</td>
</tr>
<tr>
<td>9</td>
<td>Bad file descriptor</td>
</tr>
<tr>
<td>10</td>
<td>No child processes</td>
</tr>
<tr>
<td>11</td>
<td>Resource deadlock avoided</td>
</tr>
<tr>
<td>12</td>
<td>Cannot allocate memory</td>
</tr>
<tr>
<td>13</td>
<td>Permission denied</td>
</tr>
<tr>
<td>14</td>
<td>Bad address</td>
</tr>
<tr>
<td>15</td>
<td>Block device required</td>
</tr>
<tr>
<td>16</td>
<td>Device busy</td>
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<tr>
<td>17</td>
<td>File exists</td>
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<tr>
<td>18</td>
<td>Cross-device link</td>
</tr>
<tr>
<td>19</td>
<td>Operation not supported by device</td>
</tr>
<tr>
<td>20</td>
<td>Not a directory</td>
</tr>
<tr>
<td>21</td>
<td>Is a directory</td>
</tr>
<tr>
<td>22</td>
<td>Invalid argument</td>
</tr>
<tr>
<td>23</td>
<td>Too many open files in system</td>
</tr>
<tr>
<td>24</td>
<td>Too many open files</td>
</tr>
<tr>
<td>25</td>
<td>Inappropriate ioctl for device</td>
</tr>
<tr>
<td>26</td>
<td>Text file busy</td>
</tr>
<tr>
<td>27</td>
<td>File too large</td>
</tr>
<tr>
<td>28</td>
<td>No space left on device</td>
</tr>
<tr>
<td>29</td>
<td>Illegal seek</td>
</tr>
<tr>
<td>30</td>
<td>Read-only file system</td>
</tr>
<tr>
<td>31</td>
<td>Too many links</td>
</tr>
</tbody>
</table>
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ENOPROTOOPT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_ESOCKTNOSUPPORT 48 /* Socket type not supported */
#define TARGET_EALREADY 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */
/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROMUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_PROCMISMATCH 75 /* Program version wrong */
#define TARGET_EPROMUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_EILSEQ 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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  *
  *@(#)mman.h     8.2 (Berkeley) 1/9/95
  */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED   0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK   0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*/

/*@(#)mman.h 8.2 (Berkeley) 1/9/95 */
#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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Version 2.1, February 1999
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{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(\%p,\%p)" },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtotaled, "sigtotaled", NULL, NULL, NULL },

{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat\", "%s("\",%p\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs\", "%s("\",%p\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink\", "%s("\",%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create\", "%s(%#x,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit\", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill\", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2\", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new\", "%s(%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self\", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name\", "%s(%d,"\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend\", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake\", "%s(%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask\", "%s(%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount\", "%s("\",%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write\", "%s(%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev\", "%s(%d,%p,%#x)\", NULL, NULL },
/*
 * System call numbers.
 */

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
# define TARGET_FREEBSD_NR_mknod 14
# define TARGET_FREEBSD_NR_chmod 15
# define TARGET_FREEBSD_NR_chown 16
# define TARGET_FREEBSD_NR_break 17
# define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
# define TARGET_FREEBSD_NR_getpid 20
# define TARGET_FREEBSD_NR_mount 21
# define TARGET_FREEBSD_NR_unmount 22
# define TARGET_FREEBSD_NR_setuid 23
# define TARGET_FREEBSD_NR_getuid 24
# define TARGET_FREEBSD_NR_geteuid 25
# define TARGET_FREEBSD_NR_ptrace 26
# define TARGET_FREEBSD_NR_recmmsg 27
# define TARGET_FREEBSD_NR_sendmsg 28
# define TARGET_FREEBSD_NR_recvfrom 29
# define TARGET_FREEBSD_NR_accept 30
# define TARGET_FREEBSD_NR_getpeername 31
# define TARGET_FREEBSD_NR_getsockname 32
# define TARGET_FREEBSD_NR_access 33
# define TARGET_FREEBSD_NR_chflags 34
# define TARGET_FREEBSD_NR_fchflags 35
# define TARGET_FREEBSD_NR_sync 36
# define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
# define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
# define TARGET_FREEBSD_NR_dup 41
# define TARGET_FREEBSD_NR_pipe 42
# define TARGET_FREEBSD_NR_getegid 43
# define TARGET_FREEBSD_NR_profil 44
# define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
# define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
# define TARGET_FREEBSD_NR_getlogin 49
# define TARGET_FREEBSD_NR_setlogin 50
# define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
# define TARGET_FREEBSD_NR_sigaltstack 53
# define TARGET_FREEBSD_NR_ioctl 54
# define TARGET_FREEBSD_NR_reboot 55
# define TARGET_FREEBSD_NR_revoke 56
# define TARGET_FREEBSD_NR_symlink 57
# define TARGET_FREEBSD_NR_readlink 58
# define TARGET_FREEBSD_NR_execve 59
# define TARGET_FREEBSD_NR_umask 60
# define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
/* 72 is obsolete vadvise */
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
/* 75 is obsolete vmincore */
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_getdtablesize 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
/* 98 is obsolete vtimes */
/* 99 is old sigvec */
/* 100 is old sigvec */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_connect 100
/* 101 is old accept */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_getpriority 106
/* 104 is obsolete vtimes */
/* 105 is old sigvec */
/* 106 is old sigvec */
/* 107 is obsolete sigvec */
/* 108 is old sigblock */
/* 109 is old sigsetmask */
/* 110 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old gethostname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentories */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprrio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgsctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msg recv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosecondsleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_suspend 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kidsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnmpfs_syscall 339
#define TARGET_FREEBSD_NR_sigsuspend 340
#define TARGET_FREEBSD_NR_sigaction 341
#define TARGET_FREEBSD_NR_msgsend 342
#define TARGET_FREEBSD_NR_sigtimedwait 343
#define TARGET_FREEBSD_NR_msgctl 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_msgget 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_remove_file 353
#define TARGET_FREEBSD_NR___acl_remove_fd 354
#define TARGET_FREEBSD_NR___acl_aclcheck_file 355
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 356
#define TARGET_FREEBSD_NR___acl_aclcheck_file 357
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 358
#define TARGET_FREEBSD_NR___acl_aclcheck_file 359
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 360
#define TARGET_FREEBSD_NR___setugid 361
#define TARGET_FREEBSD_NR___setugid 362
#define TARGET_FREEBSD_NR___setugid 363
#define TARGET_FREEBSD_NR___setugid 364
#define TARGET_FREEBSD_NR___setugid 365
#define TARGET_FREEBSD_NR___setugid 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR___setugid 368
#define TARGET_FREEBSD_NR___setugid 369
#define TARGET_FREEBSD_NR___setugid 370
#define TARGET_FREEBSD_NR___setugid 371
#define TARGET_FREEBSD_NR___setugid 372
#define TARGET_FREEBSD_NR___setugid 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR___setugid 375
#define TARGET_FREEBSD_NR___setugid 376
#define TARGET_FREEBSD_NR_afs3__syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR__kenv 390
#define TARGET_FREEBSD_NR__lchflags 391
#define TARGET_FREEBSD_NR__uuidgen 392
#define TARGET_FREEBSD_NR__sendfile 393
#define TARGET_FREEBSD_NR_mac__syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR__statfs 396
#define TARGET_FREEBSD_NR__fstatfs 397
#define TARGET_FREEBSD_NR__fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac__get_pid 409
#define TARGET_FREEBSD_NR___mac__get_link 410
#define TARGET_FREEBSD_NR___mac__set_link 411
#define TARGET_FREEBSD_NR__extattr_set_link 412
#define TARGET_FREEBSD_NR__extattr_get_link 413
#define TARGET_FREEBSD_NR__extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac__execve 415
#define TARGET_FREEBSD_NR__sigaction 416
#define TARGET_FREEBSD_NR__sigreturn 417
#define TARGET_FREEBSD_NR__getcontext 421
#define TARGET_FREEBSD_NR__setcontext 422
#define TARGET_FREEBSD_NR__swapcontext 423
#define TARGET_FREEBSD_NR__swapoff 424
#define TARGET_FREEBSD_NR__acl__get_link 425
#define TARGET_FREEBSD_NR__acl__set_link 426
#define TARGET_FREEBSD_NR__acl__delete_link 427
#define TARGET_FREEBSD_NR__acl__aclcheck_link 428
#define TARGET_FREEBSD_NR__sigwait 429
#define TARGET_FREEBSD_NR__thr__create 430
#define TARGET_FREEBSD_NR__thr__exit 431
#define TARGET_FREEBSD_NR__thr__self 432
#define TARGET_FREEBSD_NR__thr__kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_audition 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setsaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgsctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 522
#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rctl_get_racct 524
#define TARGET_FREEBSD_NR_rctl_get_rules 525
#define TARGET_FREEBSD_NR_rctl_get_limits 526
#define TARGET_FREEBSD_NR_rctl_add_rule 527
#define TARGET_FREEBSD_NR_rctl_remove_rule 528
#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_MAXSYSCALL 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */
* System call numbers.
*
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NRUnmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_getgindex 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstsk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_adjtime 138
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR___syscall 199
#define TARGET_OPENBSD_NR_lseek 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR___sysctlnx 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msget 225
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statsfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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@(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET.ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGETEFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27    /* File too large */
#define TARGET_ENOSPC 28    /* No space left on device */
#define TARGET_ESPIPE 29    /* Illegal seek */
#define TARGET_EROFS 30     /* Read-only file system */
#define TARGET_EMLINK 31    /* Too many links */
#define TARGET_EPIPE 32     /* Broken pipe */

/* math software */
#define TARGET_EDOM 33      /* Numerical argument out of domain */
#define TARGET_ERANGE 34    /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35    /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN    /* Operation would block */
#define TARGET_EINPROGRESS 36  /* Operation now in progress */
#define TARGET_EALREADY 37   /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38  /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39  /* Destination address required */
#define TARGET_EMGSIZE 40    /* Message too long */
#define TARGET_EPROTOTYPE 41  /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42  /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43  /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44  /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45   /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46  /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47  /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48   /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49  /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50   /* Network is down */
#define TARGET_ENETUNREACH 51  /* Network is unreachable */
#define TARGET_ENETRESET 52    /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53  /* Software caused connection abort */
#define TARGET_ECONNRESET 54    /* Connection reset by peer */
#define TARGET_ENOBUFS 55      /* No buffer space available */
#define TARGET_ESISCONN 56     /* Socket is already connected */
#define TARGET_ENOTCONN 57     /* Socket is not connected */
#define TARGET_ENOTUNREACH 51  /* Network is unreachable */
#define TARGET_ESHUTDOWN 58    /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59  /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60     /* Operation timed out */
#define TARGET_ECONNREFUSED 61  /* Connection refused */

#define TARGET_ELOOP 62       /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63  /* File name too long */
/* should be rearranged */
define TARGET_EHOSTDOWN 64 /* Host is down */
define TARGET_EHOSTUNREACH 65 /* No route to host */
define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
define TARGET_EPROCLIM 67 /* Too many processes */
define TARGET_EUSERS 68 /* Too many users */
define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
define TARGET_ESTALE 70 /* Stale NFS file handle */
define TARGET_EREMOTE 71 /* Too many levels of remote in path */
define TARGET_EBADRPC 72 /* RPC struct is bad */
define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
define TARGET_EPROGMISMATCH 75 /* Program version wrong */
define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

define TARGET_ENOLCK 77 /* No locks available */
define TARGET_ENOSYS 78 /* Function not implemented */

define TARGET_EFTYPE 79 /* Inappropriate file type or format */
define TARGET_EAUTH 80 /* Authentication error */
define TARGET_ENEEDAUTH 81 /* Need authenticator */
define TARGET_EIPSEC 82 /* IPsec processing failure */
define TARGET_ENOATTR 83 /* Attribute not found */
define TARGET_EILSEQ 84 /* Illegal byte sequence */
define TARGET_ENOMEDIUM 85 /* No medium found */
define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
define TARGET_EOVERFLOW 87 /* Conversion overflow */
define TARGET_ECANCELED 88 /* Operation canceled */
define TARGET_EIDRM 89 /* Identifier removed */
define TARGET_ENOMSG 90 /* No message of desired type */
define TARGET_ELAST 90 /* Must be equal largest errno */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from $NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp $ */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link         9
#define TARGET_NETBSD_NR_unlink       10
#define TARGET_NETBSD_NR_chdir        12
#define TARGET_NETBSD_NR_fchdir       13
#define TARGET_NETBSD_NR_mknod        14
#define TARGET_NETBSD_NR_chmod        15
#define TARGET_NETBSD_NR_chown        16
#define TARGET_NETBSD_NR_break        17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount      22
#define TARGET_NETBSD_NR_setuid       23
#define TARGET_NETBSD_NR_getuid       24
#define TARGET_NETBSD_NR_geteuid      25
#define TARGET_NETBSD_NR_ptrace       26
#define TARGET_NETBSD_NR_recvmsg      27
#define TARGET_NETBSD_NR_sendmsg      28
#define TARGET_NETBSD_NR_recvfrom     29
#define TARGET_NETBSD_NR_accept       30
#define TARGET_NETBSD_NR_getpeername  31
#define TARGET_NETBSD_NR_getsockname  32
#define TARGET_NETBSD_NR_access       33
#define TARGET_NETBSD_NR_chflags      34
#define TARGET_NETBSD_NR_fchflags     35
#define TARGET_NETBSD_NR_sync         36
#define TARGET_NETBSD_NR_kill         37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid      39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup          41
#define TARGET_NETBSD_NR_pipe         42
#define TARGET_NETBSD_NR_getegid      43
#define TARGET_NETBSD_NR_profil       44
#define TARGET_NETBSD_NR_ktrace        45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid       47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin    49
#define TARGET_NETBSD_NR___setlogin    50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sигpending13 52
#define TARGET_NETBSD_NR_compat_13_sиг.altstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sигreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday     116
#define TARGET_NETBSD_NR_getrusage   117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev     121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod     124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename     128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_osethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
#define TARGET_NETBSD_NR_compat_43_osetrlimit        146
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc       155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
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#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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*
* (mman.h 8.2 (Berkeley) 1/9/95

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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 *
 * @(#)mman.h 8.1 (Berkeley) 6/2/93 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)\", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s("%s")", %d, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s("%s")", %d, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s("%s")", %d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s("%s")", %d, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s","%#x", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
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[TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL ],
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[TARGET_FREEBSD_NR_mkfifoat, "mkfifo", NULL, NULL, NULL ],
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[TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr ],
[TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL ],
[TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL ],
[TARGET_FREEBSD_NR_nanomem, "nanomem", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL ],
[TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL ],
[TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL ],
[TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_pprofile, "profile", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL ],
[TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL ],
[TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL ],
[TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_fork, "fork", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL ],
[TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL ],
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsocketpt, "setsocketpt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockopt 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_fchmod 34
#define TARGET_FREEBSD_NR_getsockname 35
#define TARGET_FREEBSD_NR_getpeername 36
#define TARGET_FREEBSD_NR_getsockopt 37
#define TARGET_FREEBSD_NR_getppid 38
/* 38 is old stat */
#define TARGET_FREEBSD_NR_k lire 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_getpid 44
#define TARGET_FREEBSD_NR_getuid 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getppid 49
#define TARGET_FREEBSD_NR_setppid 50
#define TARGET_FREEBSD_NR_getlogin 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_setsockopt 57
#define TARGET_FREEBSD_NR_ptrace 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_getsockopt 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise    75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore     78
#define TARGET_FREEBSD_NR_getgroups   79
#define TARGET_FREEBSD_NR_setgroups   80
#define TARGET_FREEBSD_NR_getpgid     81
#define TARGET_FREEBSD_NR_setpgid     82
#define TARGET_FREEBSD_NR_setitimer   83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff     85
#define TARGET_FREEBSD_NR_getitimer   86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2        90
#define TARGET_FREEBSD_NR_fcntl       92
#define TARGET_FREEBSD_NR_select      93
#define TARGET_FREEBSD_NR_fsync       95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket      97
#define TARGET_FREEBSD_NR_connect     98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */
    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind        104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen      106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmsg */
    /* 114 is old sendmsg */
    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage   117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv      120
#define TARGET_FREEBSD_NR_writev     121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown      123
#define TARGET_FREEBSD_NR_fchmod      124
    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
        /* 129 is old truncate */
        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
        /* 141 is old getpeername */
        /* 142 is old gethostid */
        /* 143 is old sethostid */
        /* 144 is old getrlimit */
        /* 145 is old setrlimit */
        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
        /* 149 is old quota */
        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_mmsgsys 170
#define TARGET_FREEBSD_NR_shmsgsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___syscall 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_shmget 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
 /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
 /* 322 is obsolete thr_sleep */
 /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_npufs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR_lchflags 370
#define TARGET_FREEBSD_NR_uuidgen 371
#define TARGET_FREEBSD_NR_sendfile 372
#define TARGET_FREEBSD_NR_mac_syscall 373
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getauid 449
#define TARGET_FREEBSD_NR_setauid 450
#define TARGET_FREEBSD_NR_getauid_addr 451
#define TARGET_FREEBSD_NR_setauid_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsgiov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_readlinkat  500
#define TARGET_FREEBSD_NR_renameat  501
#define TARGET_FREEBSD_NR_symlinkat  502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get  506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove  508
#define TARGET_FREEBSD_NR_closefrom  509
#define TARGET_FREEBSD_NR_semctl  510
#define TARGET_FREEBSD_NR_msgctl  511
#define TARGET_FREEBSD_NR_shmctl  512
#define TARGET_FREEBSD_NR_lpathconf  513
#define TARGET_FREEBSD_NR_cap_new  514
#define TARGET_FREEBSD_NR_cap_getrights  515
#define TARGET_FREEBSD_NR_cap_enter  516
#define TARGET_FREEBSD_NR_cap_getmode  517
#define TARGET_FREEBSD_NR_pdfork  518
#define TARGET_FREEBSD_NR_pdkill  519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect  521
#define TARGET_FREEBSD_NR_getloginclass  522
#define TARGET_FREEBSD_NR_setloginclass  523
#define TARGET_FREEBSD_NR_rctl_get_racct  524
#define TARGET_FREEBSD_NR_rctl_get_limits  525
#define TARGET_FREEBSD_NR_rctl_add_rule  526
#define TARGET_FREEBSD_NR_rctl_remove_rule  527
#define TARGET_FREEBSD_NR_posix_fallocate  528
#define TARGET_FREEBSD_NR_posix_fadvise  529
#define TARGET_FREEBSD_NR_MAXSYSCALL  530
#define TARGET_OPENBSD_NR_syscall  0
#define TARGET_OPENBSD_NR_exit  1
#define TARGET_OPENBSD_NR_fork  2
#define TARGET_OPENBSD_NR_read  3
#define TARGET_OPENBSD_NR_write  4
#define TARGET_OPENBSD_NR_open  5
#define TARGET_OPENBSD_NR_close  6
#define TARGET_OPENBSD_NR_wait4  7

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*      $OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp $      */

/*      System call numbers.      */

/*      created from;      OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename      128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_mmsgqget 225
#define TARGET_OPENBSD_NR_msqsnid 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR___msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/*@  $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/*@  $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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* *
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */

/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Broken pipe */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK  EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS  36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38              /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39              /* Destination address required */
#define TARGET_EMGSIZE 40              /* Message too long */
#define TARGET_EPROTOTYPE 41              /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43              /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44              /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45              /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46              /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47              /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48              /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49              /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50              /* Network is down */
#define TARGET_ENETUNREACH 51              /* Network is unreachable */
#define TARGET_ENETRESET 52              /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53              /* Software caused connection abort */
#define TARGET_ECONNRESET 54              /* Connection reset by peer */
#define TARGET_ENOBUFS 55              /* No buffer space available */
#define TARGET_EISCONN 56              /* Socket is already connected */
#define TARGET_ENOTCONN 57              /* Socket is not connected */
#define TARGET_ESHUTDOWN 58              /* Can't send after socket shutdown */
#define TARGET_EETOOMANYREFS 59              /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60              /* Operation timed out */
#define TARGET_ECONNREFUSED 61              /* Connection refused */
#define TARGET_ELOOP 62              /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63              /* File name too long */

/* quotas & mush */
#define TARGET_EPROCLIM 67              /* Too many processes */
#define TARGET_EUSERS 68              /* Too many users */
#define TARGET_EDQUOT 69              /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70              /* Stale NFS file handle */
#define TARGET_EREMOTE 71              /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGRAMMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EETYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_o creat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek  19
#define TARGET_NETBSD_NR_getpid  20
#define TARGET_NETBSD_NR_getpid  20
#define TARGET_NETBSD_NR_compat_40_mount  21
#define TARGET_NETBSD_NR_unmount  22
#define TARGET_NETBSD_NR_setuid  23
#define TARGET_NETBSD_NR_getuid  24
#define TARGET_NETBSD_NR_getuid  24
#define TARGET_NETBSD_NR_geteuid  25
#define TARGET_NETBSD_NR_ptrace  26
#define TARGET_NETBSD_NR_recvmsg  27
#define TARGET_NETBSD_NR_sendmsg  28
#define TARGET_NETBSD_NR_recvfrom  29
#define TARGET_NETBSD_NR_accept  30
#define TARGET_NETBSD_NR_getpeername  31
#define TARGET_NETBSD_NR_getsockname  32
#define TARGET_NETBSD_NR_access  33
#define TARGET_NETBSD_NR_chflags  34
#define TARGET_NETBSD_NR_fchflags  35
#define TARGET_NETBSD_NR_getsockname  32
#define TARGET_NETBSD_NR_access  33
#define TARGET_NETBSD_NR_chflags  34
#define TARGET_NETBSD_NR_fchflags  35
#define TARGET_NETBSD_NR_sync  36
#define TARGET_NETBSD_NR_kill  37
#define TARGET_NETBSD_NR_compat_43_stat43  38
#define TARGET_NETBSD_NR_getppid  39
#define TARGET_NETBSD_NR_compat_43_lstat43  40
#define TARGET_NETBSD_NR_dup  41
#define TARGET_NETBSD_NR_pipe  42
#define TARGET_NETBSD_NR_getegid  43
#define TARGET_NETBSD_NR_prof  44
#define TARGET_NETBSD_NR_ktrace  45
#define TARGET_NETBSD_NR_compat_13_sigaction13  46
#define TARGET_NETBSD_NR_getgid  47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13  48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct  51
#define TARGET_NETBSD_NR_compat_13_sigpending13  52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13  53
#define TARGET_NETBSD_NR_ioctl  54
#define TARGET_NETBSD_NR_compat_12_oreboot  55
#define TARGET_NETBSD_NR_revoke  56
#define TARGET_NETBSD_NR_symlink  57
#define TARGET_NETBSD_NR_readlink  58
#define TARGET_NETBSD_NR_execve  59
#define TARGET_NETBSD_NR_umask  60
#define TARGET_NETBSD_NR_chroot  61
#define TARGET_NETBSD_NR_compat_43_fstat43  62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo  63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
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The upstream source was downloaded from:

`git://git.qemu.org/qemu.git`

All the binary blobs without sources contained in the pc-bios/ directory
(*.dtb, *.bin, *rom, openbios-*, palcode-clipper) in the original upstream
git repository have been removed starting from Debian package version
0.6.0.dfsg.1-1. Those roms which are free can be found in split packages
of their own, represented accordingly in the dependency relationships.

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "_acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "_acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_ffs_is_symlink, "ffs_is_symlink", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_isetugid, "isetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(%#d,%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%#d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", "%s("%s",%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readdir, "readdir", "%s("%s",%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(%s,%s)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.sigaction, "sigaction", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR.sigpending, "sigpending", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.sigprocmask, "sigprocmask", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.sigreturn, "sigreturn", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.sigsuspend, "sigsuspend", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.socket, "socket", "%s(%d,%d,%d)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR.socketpair, "socketpair", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.sstk, "sstk", NULL, NULL, NULL, },
{ TARGET_FREEBSD_NR.stat, "stat", "%s(%s,%s,%p)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR.statfs, "statfs", "%s(%s,%s,%p)\"", NULL, NULL, },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "umount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/
* System call numbers.
* 
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid  20
#define TARGET_FREEBSD_NR_mount   21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid   23
#define TARGET_FREEBSD_NR_getuid   24
#define TARGET_FREEBSD_NR_geteuid  25
#define TARGET_FREEBSD_NR_ptrace   26
#define TARGET_FREEBSD_NR_recvmsg  27
#define TARGET_FREEBSD_NR_sendmsg  28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept   30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access  33
#define TARGET_FREEBSD_NR_chflags  34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync   36
#define TARGET_FREEBSD_NR_ktrace  37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid  39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct   51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old truncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkdir 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_rmdir 136
#define TARGET_FREEBSD_NR_utimes 137
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 138
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 149
#define TARGET_FREEBSD_NR_freebsd4_statfs 150
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 151
#define TARGET_FREEBSD_NR_lgetfh 152
#define TARGET_FREEBSD_NR_getfh 153
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 154
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 155
#define TARGET_FREEBSD_NR_freebsd4_uname 156
#define TARGET_FREEBSD_NR_sysarch 157
#define TARGET_FREEBSD_NR_rtprio 158
#define TARGET_FREEBSD_NR_semsys 159
#define TARGET_FREEBSD_NR_msgsys 160
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirententries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7 shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchown 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigequeue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
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#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
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#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
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#define TARGET_FREEBSD_NR_futimesat 494
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#define TARGET_FREEBSD_NR_openat 499
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#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
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#define TARGET_FREEBSD_NR_gssd_syscall 505
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#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
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#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
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#define TARGET_FREEBSD_NR_pdgetpid 520
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#define TARGET_FREEBSD_NR_getloginclass 523
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#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*
 * System call numbers.
 *
 * created from;  OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
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#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
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#define TARGET_OPENBSD_NR_rename      128
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#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown 134
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#define TARGET_OPENBSD_NR_mkdir 136
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#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
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#define TARGET_OPENBSD_NR_ftruncate 201
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#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
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#define TARGET_OPENBSD_NR_minherit 250
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#define TARGET_OPENBSD_NR_getpeereid  273
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#define TARGET_OPENBSD_NR_setresuid   282
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#define TARGET_OPENBSD_NR_fhstat      294
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#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleept   300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs    309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */
/*
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 *
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 * modification, are permitted provided that the following conditions
 * are met:
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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.
 *
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

/*
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 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 */
@(#)errno.h 8.5 (Berkeley) 1/21/94

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
    /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST          17               /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL           22               /* Invalid argument */
#define TARGET_ENFILE          23               /* Too many open files in system */
#define TARGET_EMFILE           24               /* Too many open files */
#define TARGET_ENOTTY           25               /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26               /* Text file busy */
#define TARGET_EFBIG           27               /* File too large */
#define TARGET_ENOSPC          28               /* No space left on device */
#define TARGET_ESPIPE           29               /* Illegal seek */
#define TARGET_EROFS           30               /* Read-only file system */
#define TARGET_EMLINK          31               /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ENOPROTOOPT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_ESOCKTNOSUPPORT 48 /* Socket type not supported */
#define TARGET_EADDRINUSE 49 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */
/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 */
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp *
*/

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
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 * @(#)mman.h 8.2 (Berkeley) 1/9/95
/* $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $ */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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* *
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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 *
 * @(#)mman.h 8.1 (Berkeley) 6/2/93 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
 traditional one-character options, and GNU’ish
 --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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This Debian package is currently maintained by Remco van de Meent <remco@debian.org>.

It was downloaded from http://www.ibr.cs.tu-bs.de/projects/libsmi/

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Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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This Debian package is currently maintained by Remco van de Meent
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Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
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Braun, Rob
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Gerraty, Simon J.
Graber, Stephane
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Klyachkin, Andrey
Knoble, Jim
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Miller, Todd C.
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Moldung, Jan Thomas
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Miller, Dworkin
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Nikitser, Peter A.
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Peron, Christian S.J.
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Peslyak, Alexander
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Plotnick, Alex
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
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The following people have worked to translate sudo into other languages:

Blittermann, Mario
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with the Library, with the complete machine-readable "work that
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may 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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That's all there is to it!
The scripts in this directory are executed each time the system enters this runlevel.

The scripts are all symbolic links whose targets are located in 
/etc/init.d/.

To disable a service in this runlevel, rename its script in this directory so that the new name begins with a 'K' and a two-digit number, and run 'update-rc.d script defaults' to reorder the scripts according to dependencies. A warning about the current runlevels being enabled not matching the LSB header in the init.d script will be printed. To re-enable the service, rename the script back to its original name beginning with 'S' and run update-rc.d again.

For a more information see /etc/init.d/README.

contrib Unofficial stuff
doc Documentation, mostly obsolete
man Manual pages, not obsolete
obsolete Really obsolete stuff ;)
src Source code

The project home is on http://savannah.nongnu.org/projects/sysvinit.

Send patches to sysvinit-devel@nongnu.org.

sendsigs process omission interface

Since initscripts package version 2.86.ds1-48, /etc/init.d/sendsigs is able to omit processes from being killed by killall5(8). Process id's listed in /run/sendsigs.omit, /lib/init/rw/sendsigs.omit or any file in the /run/sendsigs.omit.d/ or /lib/init/rw/sendsigs.omit.d/ directories will be omitted by sendsigs. Note use of /lib/init/rw is deprecated and will be removed; users of /lib/init/rw must migrate to /run.

The recommended practice for adding a process id for omission is to create a file in /run/sendsigs.omit.d/<package name> containing the process id that is to be omitted by sendsigs.

This feature is only to be used for processes that need to be running when remote file systems are umounted, and that have current working directory set to a directory in the root file system.

This is the internal documentation for invoke-rc.d, as
written by Henrique M Holschuh <hmh@debian.org>

This document can be found on the web as well at

There is also the Debian BTS entry for the invoke-rc.d policy change at
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=76868

INVOKE-RC.D (/usr/sbin/invoke-rc.d) interface:
==============================================

The interface for all implementations of invoke-rc.d is mandated by the base
implementation in the sysvinit package, just like it is done for
update-rc.d.

There is a provision for a "local initscript policy layer" (read: a call to
/usr/sbin/policy-rc.d if this executable is present in the local system),
which allows the local system administrator to control the behaviour of
invoke-rc.d for every initscript id and action. It is assumed that this
script is OPTIONAL and will by written and provided by packages other than
the initscript system (sysvinit and file-rc packages).

The basic interface for all implementations of policy-rc.d is mandated by
the requirements of the base implementation of invoke-rc.d. This interface
will be described either in the manpage of invoke-rc.d, and in a text file
stored in /usr/share/doc/sysvinit/ by package sysvinit (which will host the
base implementation of invoke-rc.d).

Proposed script interfaces:

invoke-rc.d [options] <basename> <action> [extra initscript parameters...]

basename - Initscript ID, as per update-rc.d(8)
action   - Initscript action. Known actions are:
          start, [force-]stop, restart,
          [force-]reload, status
          (status is there because of the LSB. Debian does not use it).

extra initscript parameters: These parameters are passed to the initscript
as is, after the action parameter. <action> is always the first parameter
to the initscript, and may be modified by fallback actions or policy-rc.d
requests. Note, however, that the extra parameters are not dropped or
modified even if the action (first parameter) is modified.

Options:

--quiet
Quiet mode, no error messages are generated by invoke-rc.d; policy-rc.d is also called with --quiet if this option is in effect.

--force
Try to run init script regardless of policy and non-fatal errors. Use of this option in automated scripts is severely discouraged as it bypasses integrity checks. If the initscript cannot be executed, error status 102 is returned. Do note that the policy layer call (policy-rc.d) is NOT skipped, although its results are ignored.

--try-anyway
Try to run the initscript even if a non-fatal subsystem error is detected (e.g: bad rc.d symlinks). A 102 status exit code will result if init script fails to execute anyway). Unlike --force, policy is still enforced with --try-anyway.

--disclose-deny
Return status code 101 instead of status code 0 if initscript action is denied by local policy rules or runlevel constrains. An warning is generated if the action is denied.

--query
Returns one of status codes 100-106, does not execute the init.d script. Implies --disclose-deny and --nofallback. Status codes 104-106 are only generated by this option.

Note many messages are still sent to stderr in --query mode, including those regarding policy overrides and subsystem errors. Use --quiet if silent --query operation is desired.

--no-fallback
The policy layer (policy-rc.d) may return fallback actions to be run instead of the requested action. If this option is active, a fallback action request will be ignored and a "action not allowed" reply used in its place. This is probably a BAD idea unless you know exactly what you're doing.

--help
Outputs help message to stdout

Unknown actions may generate warnings, but are passed to the underlying initscript anyway. The reason for the warning is simple: It is very unlikely that an unknown action (by invoke-rc.d) will be known to the policy layer (policy-rc.d), and therefore it may cause an initscript to execute an action which the local system administrator would have not allowed had he known about it. If policy-rc.d is not present, no warnings for unknown actions are generated.
Should an initscript be executed, invoke-rc.d ALWAYS returns the status code returned by the initscript. Initscripts should not return status codes in the 100+ range (this is also a LSB requirement).

Exit status codes (LSB compatible):

0      : success
    either the init script was run and returned exit status 0 (note
    that a fallback action may have been run instead of the one given
    in the command line), or it was not run because of runlevel/local
    policy constrains and --disclose-deny is not in effect.
1 - 99 : reserved for init.d script
100     : init script ID (basename) unknown
    init script not registered sucessfully through
    update-rc.d or init script does not exist.
    This error is fatal for most initscript systems.
101     : action not allowed
    requested action will not be performed because of
    runlevel or local policy constrains, and
    --disclose-deny is in effect. Note that a fallback
    action is NOT considered "action not allowed",
    unless --nofallback is in effect.
102     : subsystem error
    initscript (or policy) subsystem malfuncion.
    (e.g. broken /sbin/runlevel).
    Also, forced initscript execution due to
    --try-anyway or --force failed.
103     : syntax error
104     : action allowed
    --query is in effect; init script would be run if
    not for --query.
105     : behaviour uncertain
    cannot determine if action should be carried out or
    not, and --query in effect.
106     : fallback action requested
    the policy layer denied the requested action, and
    supplied an allowed fallback action.

This is the internal documentation for policy-rc.d, as
written by Henrique M Holschuh <hmh@debian.org>

This document can be found on the web as well at

There is also the Debian BTS entry for the invoke-rc.d policy change at
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=76868
POLICY-RC.D  Policy layer (/usr/sbin/policy-rc.d) interface:
=============================================================

Most Debian systems will not have this script as the need for a policy layer
is not very common. Most people using chroot jails just need an one-line
script which returns an exit status of 101 as the jailed
/usr/sbin/policy-rc.d script.

The /usr/sbin/policy-rc.d file *must* be managed through the alternatives
system (/usr/sbin/update-alternatives) by any packages providing it.

/usr/sbin/policy-rc.d [options] <initscript ID> <actions> [<runlevel>]
/usr/sbin/policy-rc.d [options] --list <initscript ID> [<runlevel> ...]

Options:
--quiet
    no error messages are generated.

--list
    instead of verifying policy, list (in a "human parseable" way) all
    policies defined for the given initscript id (for all runlevels if no
    runlevels are specified; otherwise, list it only for the runlevels
    specified), as well as all known actions and their fallbacks for the
    given initscript id (note that actions and fallback actions might be
    global and not particular to a single initscript id).

<actions> is a space-separated list of actions (usually only one). Note that
the list is passed in a single parameter and not as multiple parameters.

The following actions are always known (even if specifying a policy for them
is not supported by whatever policy-rc.d system is in use): start,
[force-]stop, restart, [force-]reload, status.

If an out-of-runlevel start or restart attempt is detected by invoke-rc.d,
the "start" or "restart" action will be changed to "(start)" or "(restart)"
respectively. This allows policy-rc.d to differentiate an out-of-runlevel
start/restart from a normal one.

The runlevel parameters are optional. If a runlevel is not specified, it is
considered to be unknown/undefined. Note that for sysv-like initscript
systems, an undefined runlevel is very likely to cause a 105 exit status.

A runlevel for update-rc.d is defined as a character string, of which the
usual INIT one-character runlevels are only a subset. It may contain
embedded blanks.

stdout is used to output a single line containing fallback actions,
or to output --list results.
stderr is used to output error messages
stdin is not to be used, this is not an interactive interface.

Exit status codes:
0 - action allowed
1 - unknown action (therefore, undefined policy)
100 - unknown initscript id
101 - action forbidden by policy
102 - subsystem error
103 - syntax error
104 - [reserved]
105 - behaviour uncertain, policy undefined.
106 - action not allowed. Use the returned fallback actions
    (which are implied to be "allowed") instead.

When in doubt (policy-rc.d returned status 105 or status 1), invoke-rc.d will assume an action is allowed, but it will warn the user of the problem.

Returning fallback information:

Fallback actions are returned in the first line sent to stdout (other lines will be discarded). Multiple actions to be tried are allowed, and must be separated by spaces. Multiple actions are carried out one at a time, until one is sucessful.

e.g.: returning status 106 and "restart stop" in stdout (without the quotes) will cause invoke-rc.d to attempt action "restart", and then only if "restart" failed, attempt action "stop".

invoke-rc.d built-in policy rules:

To shield policy-rc.d of the underlying initscript system (file-rc, links in /etc/rc?.d or something else), invoke-rc.d implements the following built-in rules:

1. action "start" out of runlevel is denied,
    (policy-rc.d receives action "(start)" instead of "start");
2. action "restart" out of runlevel is denied,
    (policy-rc.d receives action "(restart)" instead of "restart");
3. any action for a non-executable initscript is denied.

Rule 3 is absolute, policy-rc.d cannot override it.

WARNING:

This version of sysvinit is really different from the 2.50 and earlier version.

Shutdown now puts the system into runlevel 6 (reboot), 0 (halt)
or 1 (single user). This can cause unexpected results if you install the binaries from this release into Slackware distributions older than Slackware 3.0.

SUPPORTED DISTRIBUTIONS:

The binaries from this package can be installed in:

- Debian 1.3 and later
- RedHat 3.x and later
- Slackware 3.0 (UNTESTED but it might work - no complaints yet). Also read the INIT.README in the slackware/ directory.
- Slackware 2.x: see the slackware/ directory

Do not install any of the scripts from the debian/ directory unless you know what you are doing.

UNSUPPORTED DISTRIBUTIONS:

- The rest :)

If you have a non-supported system, please upgrade to the latest version of your distribution that supports the Linux 2.0.x kernel (probably the reason why you are installing this newer sysvinit).

You might get away by installing *just* the "init" binary, and nothing else. Do _not_ replace your existing halt, reboot or shutdown programs.

HOW TO NON DESTRUCTIVELY TEST THE NEW INIT:

Install *just* the init binary as /sbin/init.new. Now reboot the system, and stop your bootloader so you can give arguments on the command line. With LILO you can usually achieve this by keeping the SHIFT key pressed during boot up. Enter the name of the kernel image (for LILO, TAB shows a list) followed by the argument "init=/sbin/init.new". The name "init.new" is special, do not use something like "init.test".

For example:

    boot: linux init=/sbin/init.new

YOU CANNOT SHUTDOWN IN A CLEAN WAY AFTER THIS. Your best bet is to use the "-n" flag to shutdown. This is because init is not running as process #1 if you use this method. Anyway, if this works, you can remove the old init and copy the new init into place.

DISCLAIMER:
If it breaks you get to keep both pieces. If you want to run the latest Linux 2.0.x kernel and you can't get init to work just upgrade your entire distribution to a newer version that supports the 2.0.x kernel properly.

Order of scripts run in /etc/rc?.d
==================================

0. Overview.

All scripts executed by the init system are located in /etc/init.d. The directories /etc/rc?.d (\(? = S, 0 . . . 6\)) contain relative links to those scripts. These links are named S<2-digit-number><original-name> or K<2-digit-number><original-name>.

If a scripts has the ".sh" suffix it is a bourne shell script and MAY be handled in an optimized manner. The behaviour of executing the script in an optimized way will not differ in any way from it being forked and executed in the regular way.

The following runlevels are defined:

N System bootup (NONE).
S Single user mode (not to be switched to directly)
0 halt
1 single user mode
2 .. 5 multi user mode
6 reboot

1. Boot.

When the systems boots, the /etc/init.d/rcS script is executed. It in turn executes all the S* scripts in /etc/rcS.d in alphabetical (and thus numerical) order. The first argument passed to the executed scripts is "start". The runlevel at this point is "N" (none).

Only things that need to be run once to get the system in a consistent state are to be run. The rcS.d directory is NOT meant to replace rc.local. One should not start daemons in this runlevel unless absolutely necessary. Eg, NFS might need the portmapper, so it is OK to start it early in the bootprocess. But this is not the time to start the squid proxy server.

2. Going multiuser.

After the rcS.d scripts have been executed, init switches to the default runlevel as specified in /etc/inittab, usually "2".
Init then executes the /etc/init.d/rc script which takes care of starting the services in /etc/rc2.d.

Because the previous runlevel is "N" (none) the /etc/rc2.d/KXXXXXX scripts will NOT be executed - there is nothing to stop yet, the system is busy coming up.

If for example there is a service that wants to run in runlevel 4 and ONLY in that level, it will place a KXXXXXX script in /etc/rc[2,3,5].d to stop the service when switching out of runlevel 4. We do not need to run that script at this point.

The /etc.rc2.d/SXXXXXX scripts will be executed in alphabetical order, with the first argument set to "start".


When one switches from (for example) runlevel 2 to runlevel 3, /etc/init.d/rc will first execute in alphabetical order all K scripts for runlevel 3 (/etc/rc3.d/KXXXXXX) with as first argument "stop" and then all S scripts for runlevel 3 (/etc/rc3.d/SXXXXXX) with as first argument "start".

As an optimization, a check is made for each "service" to see if it was already running in the previous runlevel. If it was, and there is no K (stop) script present for it in the new runlevel, there is no need to start it a second time so that will not be done.

On the other hand, if there was a K script present, it is assumed the service was stopped on purpose first and so needs to be restarted.

We MIGHT make the same optimization for stop scripts as well- if no S script was present in the previous runlevel, we can assume that service was not running and we don't need to stop it either. In that case we can remove the "coming from level N" special case mentioned above in 2). But right now that has not been implemented.

4. Single user mode.

Switching to single user mode is done by switching to runlevel 1. That will cause all services to be stopped (assuming they all have a K script in /etc/rc1.d). The runlevel 1 scripts will then switch to runlevel "S" which has no scripts - all it does is spawn a shell directly on /dev/console for maintenance.

5. Halt/reboot

Going to runlevel 0 or 6 will cause the system to be halted or rebooted,
respectively. For example, if we go to runlevel 6 (reboot) first
all /etc/rc6.d/KXXxxxx scripts will be executed alphabetically with
"stop" as the first argument.

Then the /etc/rc6.d/SXXxxxx scripts will be executed alphabetically
with "stop" as the first argument as well. The reason is that there
is nothing to start anymore at this point - all scripts that are
run are meant to bring the system down.

In the future, the /etc/rc6.d/SXXxxxx scripts MIGHT be moved to
/etc/rc6.d/K1XXxxxx for clarity.
This package contains the mechanism for executing the right scripts
in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit' source package. Please
consult the copyright file of the sysvinit package for the location of
the upstream sources of the sysvinit package. Debian-specific files
for sysvinit, such as these initscripts, are maintained by the members
of the pkg-sysvinit project at alioth.debian.org.

http://alioth.debian.org/projects/pkg-sysvinit

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Public License can be found in `/usr/share/common-licenses/GPL-2'.
This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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>,
* public domain.
This package contains the scripts that are executed at start and
shutdown of Debian systems.
This package is built from the `sysvinit' source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

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* public domain.

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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It works through managing symlinks in /etc/rc?.d

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
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* A rewrite of the original Debian's start-stop-daemon Perl script
  * in C (faster - it is executed many times during system startup).
  *
  * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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This package contains the scripts that are executed at start and
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1.532 tcpd 7.6.q :25

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1.533 tzdata 2018i :0ubuntu0.16.04

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That's all there is to it!

1.539 Unzip 6.0-20ubuntu1
1.539.1 Available under license:
This is the Debian prepackaged version of "unzip", Info-Zip's fast, portable, zipfile decompression utility.

This package is currently maintained by Santiago Vila <sanvila@debian.org>
and built from sources obtained from:


The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution, plus several miscellaneous fixes as reflected in the Debian changelog.
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FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:
* MoreFiles
*
* A collection of File Manager and related routines
*
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*
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.
1.540 ureadahead 0.100.0 :19.1

1.540.1 Available under license:

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Initialize empty image
f1c9645db14efddc7d8a322685f26eb 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
<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;</td>
<td>1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;removed&gt;</td>
<td>2</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
Device <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 default BSD
2e1cee529cb59c9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Size</th>
<th>Fsize</th>
<th>Bsze</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
</tr>
</tbody>
</table>
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

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
1.543 vim-common 2:7.4.1689 :3ubuntu1.3

1.543.1 Available under license:

$ !
$ !===================================================================== 
$ !
$ !
$ !VimTutor.com version 29-Aug-2002
$ !
$ !Author: Tom Wyant <Thomas.R.Wyant-III@usa.dupont.com>
$ !
$ !This DCL command procedure executes the vimtutor command
$ !(surprise, surprise!) which gives you a brief tutorial on the
$ !VIM editor. Languages other than the default are supported in
$ !the usual way, as are at least some of the command qualifiers,
$ !though you'll need to play some fairly serious games with DCL.
$ !to specify ones that need quoting.
$ !
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$ !modify it under the terms of the VIM license as available from
$ !the vim 6.1 ":help license" command or (at your option) the
$ !license from any later version of vim.
$ !
$ !This program is distributed in the hope that it will be useful,
$ !but WITHOUT ANY WARRANTY; without even the implied warranty of
$ !MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
$ !
$ !===================================================================== 
$ !
$ !Check for the existence of VIM, and die if it isn't there.
$ !
$ !if f$search ("vim:vim.exe") .eqs. ""
$ then
$ write sys$error "Error - Can't run tutorial. VIM not found."
$ exit
$endif
$ !
$ !
$ !Pick up the argument, if any.
$ !
$ inx = 0
$ arg_loop:
$ inx = inx + 1
$ if f$type (p'inx') .nes. ""
$ then
$ if p'inx'.nes. "" .and. f$locate (".-", p'inx').ne. 0
$ then
$xx = p'inx'
$assign/nolog ""xx" xx
$sp'inx' = ""
$ endif
$ goto arg_loop
$ endif
$ !
$ !
$ ! Make sure we clean up our toys when we're through playing.
$ !
$ on error then goto exit
$ !
$ !
$ ! Create the VIM foreign command if needed
$ !
$ if f$type (vim) .eqs. "" then vim := $vim:vim
$ !
$ !
$ ! Build the name for our temp file.
$ !
$utfil = "sys$login:vimtutor_" + -
$f$edit (f$getjpi (0, "pid"), "trim") + "." $assign/nolog 'utfil' TUTORCOPY
$ !
$ !
$ ! Copy the selected file to the temp file
$ !
$assign/nolog/user nla0: sys$error
$assign/nolog/user nla0: sys$output
$vim -u "NONE" -c "so $VIMRUNTIME/tutor/tutor.vim"
$ !
$ !
$ ! Run the tutorial
$ !
$assign/nolog/user sys$command sys$input
$vim -u "NONE" -c "set nocp" 'p1' 'p2' 'p3' 'p4' 'p5' 'p6' 'p7' 'p8' 'utfil'
$ !
$ !
$ ! Ditch the copy.
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1.546 whiptail 0.52.18-1ubuntu2

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newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi
<ezanard@debian.org>, from sources obtained from:
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1.547 whois 5.2.11

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:0ubuntu1~16.04.1

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