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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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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, kevin@puluahc.hawaii.edu

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

Randy Terbush, randy@zyzyva.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.

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- 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.

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

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port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
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The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

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Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu {none, formatted, semiformalled, unformatted}
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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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- Command-line flags have been removed since they will never be used here.

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

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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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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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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.

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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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Cisco Systems, Inc.
San Jose, CA, USA

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Date</th>
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<tr>
<td>Initial installation</td>
<td>July/August 1996</td>
</tr>
<tr>
<td>Misc bug fixes</td>
<td>May 1997</td>
</tr>
<tr>
<td>Submission to Apache Software Foundation</td>
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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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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).

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114
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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Central Engineering
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Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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Available Languages: en
HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our mailing lists.

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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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1.7 apache2-utils 2.4.18 :2ubuntu3.9

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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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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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 * 
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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)
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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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*****************************************************************************

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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
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.
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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
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and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
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impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

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.

<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 Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Library 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

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

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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.]
@end display

@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.

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 \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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
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.
``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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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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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.

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
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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 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 than the cost of performing this distribution.
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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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If such an object file uses only numerical parameters, data
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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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size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1:  7936  4864  0x7
#2:  12544  3584  0x7
size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1:   32  7648  0x83
#2:   7680  8704  0xa5
#5:  7936  4864  0x7 (freebsd)
#6:  12544  3584  0x7 (freebsd)
# 1:       32-    7679 (    7648 sectors,     3 MB)
# 2:     7680-   16383 (    8704 sectors,     4 MB)
# 5:    7936-   12799 (    4864 sectors,     2 MB)
# 6:   12544-   16127 (    3584 sectors,     1 MB)
# 1:    7936-   12799 (    4864 sectors,     2 MB)
# 2:   12544-   16127 (    3584 sectors,     1 MB)

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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
2d8e8df51a88a045db233418dd73fbd 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>.
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 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    c 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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1999 Andreas Dilger (adilger@enel.ucalgary.ca)
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Files: lib/procutils.c
   include/xalloc.h
Copyright: 2010, 2011 Davidlohr Bueso <dave@gnu.org>
License: LGPL-2+
Files: */colors.*  
Copyright: 2012 Ondrej Oprala <ooprala@redhat.com>  
2012-2014 Karel Zak <kzak@redhat.com>  
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Files: login-utils/setpwnam.h  
    login-utils/setpwnam.c  
Copyright: 1994 Martin Schulze <joey@infodrom.north.de>  
    1994 Salvatore Valente <svalente@mit.edu>  
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    libfdisk/src/*  
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    */match.*  
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Files: libblkid/*  
    libblkid/src/*  
    libblkid/samples/*  
    libblkid/src/partitions/*  
    libblkid/src/superblocks/*
libblkid/src/topology/*

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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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbeb sd.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
2e1cee529c6599e34f34f3196a1 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):

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</tr>
<tr>
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<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
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<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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100dpi-lutRS10.bdf 100dpi-lutRS10-IL2.bdf 100dpi-lutRS08.bdf
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100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
75dpi-lutRS12-IL2.bdf 75dpi-lutRS14.bdf 75dpi-lutRS14c.bdf
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lib/inet_ntop.c

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src/cut.c
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This package was put together by Clint Adams <schizo@debian.org>, from sources obtained from ftp://ftp.gnu.org:/gnu/cpio


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1.28 cpp 4:5.3.1 :1ubuntu1
1.28.1 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
\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
.. Set up some character translations and predefined strings. \^(- will
\^r give an unbreakable dash, \^r(pi will give pi, \^r(L will give a left
\^r(double quote, and \^r(R will give a right double quote. | will give a
\^r(real vertical bar. \^r(C will give a nicer C++. Capital omega is used to
\^r do unbreakable dashes and therefore won't be available. \^r(C and \^r(C
\^r expand to ` in nroff, nothing in troff, for use with C<>.
..tr \^r(W-)|(bv\^r(Tr
..ds C+ C\^v-1\^h-1p\^s-2+\^h-1p\^s0\^v-1\^h-1p'
..ie n {
  .. ds -- \^r(W-
  .. ds PI pi
  .. if (\n(.H=4u)&(1m=24u) .ds -- \^r(W\^h-12u\^r(W\^h-12u\^r\^v-
  .. if (\n(.H=4u)&(1m=20u) .ds -- \^r(W\^h-12u\^r(W\^h-8u\^r\^v-
  .. ds L" "
  .. ds R" "
  .. ds C" "
  .. ds C" "
..br}
..el{
  .. ds -- \^e(em]
  .. ds PI \^p
  .. ds L" \^p
  .. ds R" "
..br}
..}
.. 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
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
if v .ds ~ `(w/u*8/10-1*#H)\v'-.2(u~`d's+2h)\n:u'
if v .ds ^ `(w/u*10/11-1*#H)\v'-.4m\h'|\n:u'

` corrections for vroff
if v .ds -` `(w/u*9/10-1*#H)\s-2u~\d's+2h)\n:u'
if v .ds ` `(w/u*10/11-1*#H)\v'-.4m\h'|\n:u'

` for low resolution devices (crt and lpr)
if \n(H>23 .if \n(V>19 \}
IX Title "GPL 7"
.TH GPL 7 "2003-03-01" "gcc-3.3" "GNU"
.SH "NAME"
gpl GNU General Public License
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.IX Header "DESCRIPTION"
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1.29 cpp-5 5.4.0 :6ubuntu1~16.04.11

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Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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

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/* 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
#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_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), 
*%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
#define DBX_CONTIN_LENGTH 0

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================================================================================
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
%B\$I\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
..
.. .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'-2+\h'-1p'+\v'\v'.1v\h'-1p'
.. .ie n \n
.. .ds -- \(*W-.
.. .ds PI pi
.. .if \n(\H=4u)&(1m=24u) .ds -- \("W\v'-12u\"W\h'-12u\"\" diablo 10 pitch
.. .if \n(\H=4u)&(1m=20u) .ds -- \("W\v'-12u\"W\h'-8u\" diablo 12 pitch
.. .ds L" "
.. .ds R" "
.. .ds C" "
.. .ds C" "
.'br\}
.ebr\}
.. .ds -- \(em\]
.. .ds PI \(*p
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.

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@end example

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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 Multimac 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@mtia.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.)
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# 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',
            'depcopy',
            '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.
            'gnu.texi',
        )]
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 ChangeLogs:

```python
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\s+)*\[Cc\])\n
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\s*(?:' + ranges + ',?\s*)' + name + ')?

            # 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.
sel. use_quilt = False

# If set, force all notices to include this year.
sel. 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'
        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_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('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',
]

GCCCmdLine().main()
There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.

There is a license section in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.

The source code is distributed under the GNU General Public License version 3, with the addition under section 7 of an exception described in the GCC Runtime Library Exception, version 3.1 as follows (or see the file COPYING.RUNTIME):

GCCRUNTIMELIBRARYEXCEPTION

Version 3.1.31 March 2009

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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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</appendix>

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#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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.,-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
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Version 3.1, 31 March 2009

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoctaglets.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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package java.security;

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

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BXtags[Lcom/sun/javadoc/Tag;haveValidTagZilresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!
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.
 *
 * @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
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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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 = -56365702222231596674LL;
::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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* m4/ax_func_which_gethostbyname_r.m4

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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',
            'ltignore.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
        ])

        self.skip_dirs |= set([
            # Skip directories.
            '.svn',
            '.git',
            '.idea',
            'build',
            'dist',
            'docs',
            'include',
            'lib',
            'share',
            'test',
        ])
'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'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
```

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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*'[0-9-]

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

        # Matches one year.
        self.year_re = re.compile (r'[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\(C\)\, etc.
            \'(\[Cc\]opyright\s+\(\[Cc\]\)?)\n            \'(\[Cc\]opyright\s+\%s\'
            \'(\[Cc\]opyright\s+copy\,'
            \'(\[Cc\]opyright\s+\@copyright\{\}\)
            \[copyright = ul\'
            \'(\@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).
'( + 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
else:
    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 (match.group(1) in self.holder_suffixes)))
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:
            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)

# Process a single file.
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 + '\n')
            else:

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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 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())
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',
                   'libibtim',
                   'libmudflap',
                   'libobjc',
                   'libstdc++-v3',
]

GCCCmdLine().main()
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Version 2, June 1991

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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;
    }
  }
}

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 "";
        }
        return super.toString(tags);
    }
}
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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Code
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inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V

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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/Tag
506*{Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;sun/javadoc/Tag2::text
=?java/lang/String@A/Length(1)Cjava/lang/StringBuffer
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KPQ(Ljava/lang/String;)V
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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.
 *
 * @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.
 */
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 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:
 * '(' + getClassName() + ' ' + 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

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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
 *
 * @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
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;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]^*nop
q ++
.-012345/*6578,95S:Y<L+(L4*AEIL++!=L+*LIL+*MOQ+!=L+*MIL+)=L+U*
"+7>GNKWXZ
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
>(J)VCode
<init>(Ljava/lang/String;I)VLineNumberTableLocalVariableTable
thisvalues4[Lgnu/java/lang/Permission;Ljava/lang/Permission;Ljava/lang/Permission;Ljava/lang/Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;I)VvalueOfE(Ljava/lang/String;)Lgnu/java/lang/AudioSecurityMa
nager$Permission;
,)-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<LSLgnu/java/lang/Permission;>InnerClasses4Sgnu/java/sound/AudioSecurityManager
Permission@1@@@
eAYYYYSYSYSYS
G'E
```
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$;
};

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

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

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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^L

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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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    its purpose remains meaningful.

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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 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.
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@settitle GNU General Public License
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@end c
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```
Local Variables:
ispell-local-pdict: "ispell-dict"
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'-1p'+\s0v'.1v\h'-1p'
.ie n {\v'
  .ds \*-\W-\)
  .ds PI pi
  .if \(\n(H=4u)\&(1m=24u)\) .ds -- \(*W\h'-12u\)(*W\h'-12u\h'-\) diablo 10 pitch
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  .ds L' ""
  .ds R' ""
  .ds C' ""
  .ds C' ""
'\br\}
}\n\v'
  .ds -- \(\em\)
  .ds PI \(*p
  .ds L' ""
  .ds R' ""
'\br\}
'\v'
'\v'
\v' 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.

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fudge factors for nroff and troff

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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)))

#ifdefs 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

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/* 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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 */
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1.30 cracklib-runtime 2.9.2 :1ubuntu1

1.30.1 Available under license :

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

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

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

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

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

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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

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=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> > On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> > 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
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.
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
>>
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWTW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

-----------
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-ivps.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkyemail-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 l91Gxtp020623
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 spunkyemail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
Id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071001010098k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF4F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010098k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

Open Source Used In Ultra Services Platform Version 6.7
1138
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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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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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 @@
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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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--- a/test/functional/expected/ui/small-black/iepngfix.htc
+++ b/test/functional/expected/ui/small-black/iepngfix.htc
@@ -4,7 +4,7 @@
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1.49 e2fslibs:amd64 1.42.13 :1ubuntu1

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This package was put together by Yann Dirson <dirson@debian.org>,
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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/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
- 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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# 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:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(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:: $(BSDLIB_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 Fri Dec 14 22:24:35 EST 2007

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

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Theodore Ts'o
23-June-2007

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/*

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

- trivial database library - private includes
-
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#
# 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): $(OBJS)

(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) ./
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) "$(my_dir)"/$(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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1.50 e2fsprogs 1.42.13 :1ubuntu1

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

- trivial database library - private includes
** NOTE! The following LGPL license applies to the tdb
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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 = libc
# 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:\n$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
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$(RM) -f $(BSD_LIB)
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Theodore Ts'o
23-June-2007

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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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(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.

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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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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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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
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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.

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1.51 eject 2.1.5+deb1+cvs20081104-13.1
:13.1ubuntu0.16.04.1

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#
# The script extract license information out of logstash project
# First it will use license information out of gem object.
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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| v.name <=> u.name}.each do |x|
puts '='*80 #separator
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]
end
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

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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<signature of Ty Coon>, 1 April 1989
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1.60 gcc 4:5.3.1 :1ubuntu1

1.60.1 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
\B\$1\F
.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. | 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-)\(bw\)\(Tr
.ds C+ C\n\v\-1\v\-1p\n\v\-2p\n\v\-1p\+\v\+0\v\+1p\-1p'
.ie n \{
  . ds -- \(*W-
  . ds PI pi

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.

For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.
This text appears to be a section of code, possibly for a formatting utility like troff or nroff, which are used for typesetting in Unix-like environments. The code contains various escape sequences and macros for creating specific types of decorations or accents in formatted text. The text also includes comments and conditional blocks, indicating that it is part of a larger script or program.
```
.SH "NAME"
gpl - GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh "-1GNU-1GENERAL-1PUBLIC-1LICENSE-1"
.IX Subsection "GNU GENERAL PUBLIC LICENSE"
.Sh "Version 2, June 1991"
.IX Subsection "Version 2, June 1991"
.Vb 2
\& Copyright (c) 1989, 1991 Free Software Foundation, Inc.
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.Ve
.PP
.Vb 2
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\& of this license document, but changing it is not allowed.
.Ve
.Sh "Preamble"
.IX Subsection "Preamble"
.Vb 9
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\& Foundation's software and to any other program whose authors commit to
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\& your programs, too.
.Ve
.PP
.Vb 6
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\& if you want it, that you can change the software or use pieces of it
\& in new free programs; and that you know you can do these things.
.Ve
.PP
.Vb 4
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\& anyone to deny you these rights or to ask you to surrender the rights.
\& These restrictions translate to certain responsibilities for you if you
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.Ve
.PP
.Vb 5
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RE

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RS

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RE

RS

Sp
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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.
.Sp
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compelled to copy the source along with the object code.
.RE
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Sh "-1NOSO -1WARRANTYs0"

IX Subsection "NO WARRANTY"

IP "11."

IX Item "11."

\&-1BECAUSEs0 -1THEs0 -1PROGRAMs0 -1ISs0 -1LICENSEDs0 -1FREEs0 -1OFs0 -1CHARGEs0, -1THEs0 -1ISs0 -1NOs0 -1WARRANTYs0
\&-1FORs0 -1THEs0 -1PROGRAMs0, -1TOs0 -1THEs0 -1EXTENTs0 -1PERMITTEDs0 -1BYs0 -1APPLICABLEs0 -1LAWs0 -1EXCEPTTs0 -1WHENs0
\&-1OTHERWISEs0 -1STATEdTs0 -1NWRITEIngTs0 -1THEs0 -1COPYRIGHTs0 -1HOLDERs0 -1AND/ORs0 -1OTHERs0 -1PARTIESs0
\&-1_PROVIDeTs0 -1THEs0 -1PROGRAMs0 "-1ASs0 -1ISs0" -1WITHOUTs0 -1WARRANTYs0
\&-1OFs0 -1ANYs0 -1asmineTs0 -1EXPEREsTs0
\&-1ORs0 -1IMPLIEDTs0, -1INdEXIngTs0, -1NOTs0 -1LIMITEDs0 -1TOs0, -1THEs0 -1IMPLIEDs0 -1WARRANTIESs0 -1OFs0
\&-1MERCHANTABILITYs0 -1ANDs0 -1FITNESSs0 -1FORs0 -1PARTICULARs0 -1PURPOSEs0, -1THEs0 -1ENTERTs0 -1RISKs0 -1ASs0
\&-1TOs0 -1THEs0 -1QUALITYs0 -1PERFORMANCEs0 -1OFs0 -1TOs0, -1PROGRAMs0 -1ISs0 -1WITHTs0 -1YOUs0, -1SHOULDs0 -1THEs0
\&-1_PROGRAMs0 -1PROVEs0 -1DEFECTIVEs0, -1YOUs0 -1ASSUMEs0 -1THEs0 -1COSTs0
\&-1OFs0 -1ALLs0 -1NECESSARYs0 -1SERVICIngTs0,
\&-1REPAIRs0 -1ORs0 -1CORRECTIONS0.

IP "12."

IX Item "12."

\&-1NOTs0 -1UNLESSs0 -1REQUIREDs0 -1BYs0 -1APPLICABLEs0 -1LAWs0 -1ORs0 -1AGREEds0 -1TOs0 -1WRIGHTIngTs0
\&-1COPYRIGHTs0 -1HOLDERs0, -1ORs0, -1OTHERs0 -1PARTIESs0
\&-1WHOs0 -1MAKEs0 -1MODIFYs0 -1PROGRAMs0 -1ASs0, -1ABOVEs0, -1BEs0 -1LIMITEDs0 -1DAMAGESs0
\&-1INCLUDINGs0 -1GENERALs0, -1SPECIALs0, -1INCIDENTALs0 -1ORs0 -1CONSEQUENTIALs0 -1DAMAGESs0 -1ARISINGs0
\&-1OUTs0 -1OFs0 -1THEs0 -1USEs0 -1ORs0 -1INABILITYs0 -1TOs0, -1USEs0 -1THEs0
\&-1PROGRAMs0 -1INCLUDINGs0 -1BUTs0 -1NOTs0 -1LIMITEDs0
\&-1TOs0 -1LOSSs0 -1OFs0 -1DATAs0 -1ORs0 -1DATAs0, -1BEINGs0 -1RENDEreds0 -1ACCURATEs0, -1ORs0 -1DAMAGESs0, -1YOuS0 -1FORs0 -1ORs0
\&-1CEs0 -1INCLUDINGs0 -1GENERALs0, -1SPECIALs0, -1INCIDENTALs0 -1ORs0 -1CONSEQUENTIALs0 -1DAMAGESs0 -1ARISINGs0
\&-1OUTs0 -1OFs0 -1THEs0 -1USEs0 -1ORs0 -1INABILITYs0 -1TOs0, -1USEs0 -1THEs0
\&-1PROGRAMs0 -1INCLUDINGs0 -1BUTs0 -1NOTs0 -1LIMITEDs0
\&-1TOs0 -1LOSSs0 -1OFs0 -1DATAs0 -1ORs0 -1DATAs0, -1BEINGs0 -1RENDEReds0 -1ACCURATEs0, -1ORs0 -1DAMAGESs0, -1YOuS0 -1FORs0 -1ORs0
\&-1CEs0 -1INCLUDINGs0 -1GENERALs0, -1SPECIALs0, -1INCIDENTALs0 -1ORs0 -1CONSEQUENTIALs0 -1DAMAGESs0 -1ARISINGs0

Sh "-1ENDs0 -1TERMs0 -1CONDITIONs0"

IX Subsection "END OF TERMS AND CONDITIONS"

Sh "How to Apply These Terms to Your New Programs"

IX Subsection "How to Apply These Terms to Your New Programs"

Vb 3

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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.

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!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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:
#
# 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.txti',
'gpl_v3.txti',
'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-obsolete.m4',
'missing',
'mkdepl',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'yldwrap',

# Skip FSF mission statement, etc.
'gnu.txti',
'funding.txti',
'appenix_free.xml',

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

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):
        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.
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
            else:
# 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.
else 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',
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 (['math-68881.h', ])
        self.skip_dirs |= set (['ada', 'testsuite', ])
        self.skip_extensions |= set (['

Open Source Used In Ultra Services Platform Version 6.7
1540
# 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 woed 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')
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 ('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 ('libobjc')
        self.add_dir ('libquadmath')

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.')
# 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',
]

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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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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1609


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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.
 * */
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
 */
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
 */
boolean equals (Object perm);
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* m4/ax_func_gethostbyname_r.m4

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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$;
};

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
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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) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mitame.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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@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\$1\$1\$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 \^\Pi give an unbreakable dash, \^\Pi give pi, \^\Pi give a left \^\Pi double quote, and \^\Pi give a right double quote. \^\Pi(\Pi will \^\Pi give a nicer C++.  Capital omega is used to do unbreakable dashes and \^\Pi therefore won't be available. \^\Pi(\Pi and \^\Pi(\Pi( expand to ` in nroff,
"nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'.1\v'\-1p'^\-2+\h'\-1p'\+s0\v'.1\v'\-1p'
.ie n \{
  . ds -- \(*W-
  . ds PI pi
  . if \(\(\(n(.H=4u)&(1m=24u) . ds -- \(*W\h'\-12u\(*W\h'\-12u\\h'-1p'\h'-1p'+s0\v'.1\v'\-1p'
  . if \(\(\(n(.H=4u)&(1m=20u) . ds -- \(*W\h'\-12u\(*W\h'\-8u\\h'-8u\h'-1p'
  . ds L''''
  . ds R''''
  . ds C''''
  . ds C''''
'br\}
.es\{
  . 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 '
"" If the F register is turned on, we'll generate index entries on stderr for indexes (.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 #f \f1
. SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.Sh "Version 3, 29 June 2007"
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.Vb 1
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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 DBX_CONTIN_LENGTH 0

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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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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
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4. You may copy and distribute the Library (or a portion or
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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.
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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.

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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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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/* 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)),\ 
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), "\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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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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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software
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 Public License instead of this License.

`" 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 \(*W-
.ds C+ C\v'-1V\h'-1p'\v'-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\-'\v'.1V\h'-1p'
  .if \n(\H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-8u\-'\v'.1V\h'-1p'
  .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 '
..
" 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%t\"\$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 #[ \\1
   ds #] \\P

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

" troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n.wu*8/10\n*.(#H)\v\n\n:u'
.ds 8 \h'-(#H)\v'-(#V\n\n:u'
.ds o \k:\h'-(\n.wu+w\n/2u\v'-(#H)/2u\v'-.3n\v'-(#(de\v'.3n\h')\n:u\v'-(#]
.ds d- \h'-(#H)\v-(#h')\w-\w-.25m\d2(\h\v')\v'.25m\h'-(#H'
.ds D- \k:\h'-(#W'Du\v'-.11m\v')(hy\v'11m\h')\n:u'
.ds th'-(#V'.3m\v'1s+1s-1V-.3m\h'-(\w\v'2/3)s-10s+1V'-(#]
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The versions for low resolution devices (crt and lpr)

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making modifications to it. Object code means any non-source form
of a work.

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@m.tiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (tfh@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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# 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',

Open Source Used In Ultra Services Platform Version 6.7
1862
'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 ('\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][0-9-0-9,\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]\{\})'  
'\{([Cc]\{\})\}'  
'\{([Cc]\{\}%)'  
'\{([Cc]\{\}+)\}'  
[copyright = u\]'  
'\{[Cc]\{\}+)'  
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*\{(?:' + ranges + ',?\)'  
'\{[Cc]\{\}+[Cc]\}'  
# 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 + '(' + 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 $nl')
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

                        break

                line = line[match.end (1):]
                if intro.startswith ('copyright = '):
                    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)
# 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...

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

            # 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)

    def skip_file (self, dir, filename):
        # Maintained by the translation project.
        '.po',
        # Automatically-generated.
        '.pot',
    )

    def skip_file (self, dir, filename):
        # Maintained by the translation project.
        '.po',
        # Automatically-generated.
        '.pot',

        # 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_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.')
        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 ('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 ('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" />
</head>
<body>
<div class="navheader">
<table width="100%" summary="Navigation header">
<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">
License
</h2></div></div>
</div>
<p>
There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.
</p>
</div>
</body>
</html>
with the addition under section 7 of an exception described in
the GCC Runtime Library Exception, version 3.1 as follows (or see the file COPYING.RUNTIME):

GCCRUNTIMELIBRARYEXCEPTION

Version 3.1, 31 March 2009

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The "CompilationProcess" transforms code entirely represented in non-intermediatelanguages designed for human-written code, and/or in JavaVirtualMachine bytecode, into TargetCode. Thus, for example, use of source code generators and preprocessors need not be considered part of the CompilationProcess, since the CompilationProcess can be understood as starting with the output of the generators or preprocessors. 

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We can probably offer suggestions.
works whose purpose is instruction or reference.

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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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#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_gethostbyname_r.m4

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:J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;

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N65P
RTSjava/lang/String01
```

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Open Source Used In Ultra Services Platform Version 6.7

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```java
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;
    }
```

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1969
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(tags[i].text());
                }
            }
            result.append("</dl>");
            return result.toString();
        }
    }
}
result.append("<dt><i>Copyright &©1971; " + 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
inConstructorinMethod
inOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V

&(*)
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KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTag ZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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`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.
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 {
    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 arg the argument
     * @return true if the caller has this permission
     */
    public abstract boolean implies(Permission arg);
}
```
* @param obj the `Object` being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)

```java
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
```

```java
/**
 * 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);
```

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

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

```java
/**
 * Get the name of this `Permission`.
 *
 * @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());
    }
}
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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>.
 * */
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__
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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David Megginson, sax@megginson.com
1998-05-11
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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:
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',
    'ltstarcher.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+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+%'  
        '\[Cc\]opyrights++copy;'  
        '\[Cc\]opyrights++@copyright\}udson'  
        'copyright = ulm'  
        '@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.texti).
    '\(' + 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):].lstrip()
        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
```python
+ 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
                # 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)

    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
                # 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)
```
# 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)
        selfdirs = []
        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.
'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')
    elif 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',

        # Imported from GeoLite2.
        'geolite2',

        # 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')
    elif filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
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')
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('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # 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 ('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 example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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- 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.
- 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 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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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

@enumerate 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
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@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
@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.
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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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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.
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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#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__
#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));

#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;

/**<p>
 * 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 © " + tags[i].text() + "</i></dt>\n" + tags[i].text() + "&amp;#169;" + tags[i].text() + "</dt>\n");
                }
            }
        }
    }
    return null;
}

for (int i = 0; i < tags.length; i++) {
    if (tags[i].text().length() > 0) {
        result.append("<dt><i>Copyright © " + tags[i].text() + "&amp;#169;</i></dt>\n" + tags[i].text() + "</dt>\n");
    }
}
/* 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 (aren@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
  */
```java
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
"write,read".

* @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();
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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
 */
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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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 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(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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@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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/* 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_OUTPUTAligned_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, 29 June 2007

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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1.63 gcc-6-base:amd64 6.0.1 :0ubuntu1
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
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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" /><meta name="keywords" content="ISO C++,
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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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@cindex LGPL, Lesser General Public License
@center 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.]
@end display

@appendixsubsec Preamble

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

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

We call this license the \textit{Lesser} General Public License because it does \textit{less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{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 "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
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@enumerate a
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However, linking a "work that uses the Library" with the Library
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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@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

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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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@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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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.

@var{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) 2013-2016 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',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'lmain.sh',
            'ltoptions.m4',
            'ltsgar.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 ('	')
    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]opyrights+([Cc])\]'  
            '[Cc]opyrights+\%'  
            '\[Cc\]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+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.
sel.use_quilt = False

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

# Goes after the year(s). Could be ', '.
sel.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,

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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:
        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 + '\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',
    ])

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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':
            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('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 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 ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

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

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 (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@mitami.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 (bce@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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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

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;
    }
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 = -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
     * @see SecurityManager#impliesPermission(Permission, Permission)
     */
    public boolean impliesPermission(Permission perm)
    {
        return true;
    }
}
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>equals()</code>.
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * (getClassName() + ' ' + 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
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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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#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
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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#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;
            }
        }
    }
}

#endif // __gnu_javax_sound_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$;
    };

#ifdef // __gnu_javax_sound_AudioSecurityManager$Permission__

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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,%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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   (actually AT&T syntax for insns and operands,
   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 */
```c
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
printf (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)  
( 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_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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@settitle GNU General Public License
@c man begin SEEALSO
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@end ignore
@c man begin DESCRIPTION
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@end enumerate

@endheading END OF TERMS AND CONDITIONS

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

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

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

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in
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(agn@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssid.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) 2013-2016 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',
'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',
)
)

```python
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+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 (  
            # 1: 'Copyright (C)', etc.
            '((Cc)opyright'  
            ']'if(Cc)opyright\s+\%(Cc)\y'  
            ']'if(Cc)opyright\s+%'s'  
            ']'if(Cc)opyright\s+\&\copy;'  
            ']'if(Cc)opyright\s+\@copyright{}'  
            'copyright = ul'  
            )

# Open Source Used In Ultra Services Platform Version 6.7
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

# 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 __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 year

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 ' ')
        + intro + 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

                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 (dir, filter) in self.dirs:
            sys.stdout.write (format % dir)

    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' % 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'
        for (dir, filter) in self.dirs:
            sys.stdout.write (format % dir)
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.
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.')
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        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 ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libsosp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lt6o-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libobjc',
            'libquadmath',
            'libsosp',
            'libstdc++-v3',
            'libvtv',
            'lt6o-plugin',
            'zlib',
            'boehm-gc',
            'config',
            'fixincludes',
            'gcc',
            'gnatools',
            'include',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libobjc',
            'libquadmath',
            'libsosp',
            'libstdc++-v3',
            'libvtv',
            'lt6o-plugin',
            'zlib',]
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*m4/ax_func_which_gethostbyname_r.m4

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import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

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 * 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;
        }
    }
}

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
/* 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>.
 *
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * (' + getClass().getName() + ' ' + getName() + ' ' + getActions + ' ' + ' + ')</code>.
 * @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 <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>.
    */
}
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 = -5636570222231596674LL;
    ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;

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

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

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

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

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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
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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.

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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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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.72 grub-common 2.02~beta2 :36ubuntu3.20

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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 @@
 */

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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

/*
Name: GNU GRUB
Source: http://www.gnu.org/software/grub/

Files: *
License: GPL-3+

Files: debian/*
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From 2252bec27eced3d0353d1868af5a5f325450cc1d2 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

/*
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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
--- 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

/*
Name: GNU GRUB
Source: http://www.gnu.org/software/grub/

Files: *
License: GPL-3+

Files: debian/*
2008, 2009, Felix Zielcke
2009, Jordi Mallach
License: GPL-3+

Files: debian/grub-extras/*
Copyright: Nathan Coulson
2003, 2007 Free Software Foundation, Inc
2003 NIIBE Yutaka
License: GPL-3+

Files: themes/starfield/*
Copyright: 2012 Free Software Foundation, Inc
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Files: themes/starfield/theme.txt
Copyright: 2011 Daniel Tschudi
License: Expat

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1.75 grub-pc-bin 2.02~beta2 :36ubuntu3.20

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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 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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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

 /*
 Name: GNU GRUB
 Source: http://www.gnu.org/software/grub/

 Files: *
License: GPL-3+

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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
/*
Name: GNU GRUB
Source: http://www.gnu.org/software/grub/

Files: *
License: GPL-3+

Files: debian/*
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The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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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.

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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
               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 shutdown of Debian systems.

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
This package was debianized by Andrew Pollock <apollock@debian.org> on Sun, 02 Mar 2008 21:18:00 -0800.

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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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.

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* 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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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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1.100 junit4 4.12-4ubuntu1

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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
#
0  lelong0x864ab572psf2 screen font data
>12lelong&1 with Unicode index
>16lelong%b, %d glyphs
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o Daemon framework extension to block SIGCHLD
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Jeremy Rumpf, <rumpf.6@osu.edu> :
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt,
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Kevin Lindsay, <kevinl@netnation.com> :
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
o Extended VRRP framework to support floating
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ter-u20b.bdf, ter-u20n.bdf, ter-u24b.bdf, ter-u24n.bdf,
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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):
    pass
# 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'\s*\*\s*\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
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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/gss_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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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.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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```python
lib/gssapi/generic/gssapi_err_generic
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
```

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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
lib/krb5/spnego_spnego.c
```

---

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src/lib/gssapi/: including the following files:

lib/gssapi/generic/gssapi_err_generic.et
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
and the initial implementation of incremental propagation, including the following new or changed files:

```python
include/class/iprop_hdr.h
kadmin/server/class/ipropd_svc.c
lib/kdb/class/iprop.x
lib/kdb/class/kdb_convert.c
lib/kdb/class/kdb_log.c
lib/kdb/class/kdb_log.h
lib/krb5/class/error_tables/class/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_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
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_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/gDup_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
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.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_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
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_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
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/kpropllog.c
```

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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
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
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.. 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
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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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c

cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_krb5/spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_krb5/spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
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lib/libgss/g_inquire_context.c
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# 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())
            in_comment = False
            code_seen = True
        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)

1.107 language-selector-common 0.165.4

1.107.1 Available under license:

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Upstream-Maintainer: Arne Goetje <arne@ubuntu.com>
Upstream-Source: https://code.launchpad.net/~ubuntu-core-dev/language-selector/ubuntu

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1.108 less 481-2.1ubuntu0.2

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The previous maintainers were Darren Stalder <torin@daft.com>,
Erick Branderhorst <branderh@debian.org> and
Bill Mitchell <mitchell@mdd.comm.mot.com>.

It was downloaded from http://www.greenwoodsoftware.com/less/

Upstream Author: Mark Nudelman <markn@greenwoodsoftware.com>

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file_io/unix/mktemp.c, strings/apr_strings.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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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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The following was received February 23, 2000 From: "Linn, John" February 19,
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This package was debianized by Thom May <thom@debian.org> on
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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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1.121 libarchive:amd64 3.1.2
:11ubuntu0.16.04.5

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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/.
#
# 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

        print(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',
        'depcopy',
        '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.
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 + '|\w-.]+')

    # 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"' 
        '\[@set\s+copyright{w-}\]+' 
        # 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
        raise self.BadYear (string)

    def year_range (self, years):
        pass
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
# 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)
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:
            sys.exit(0)
        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',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
# and isn't updated.

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

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

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

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

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

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

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

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If distribution of object code is made by offering access to copy
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Accompany the work with the complete corresponding
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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 = -563657022231596674L;
        ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
    public:
        static ::java::lang::Class class$;
};

#if !defined(__java_security_Permission__) // DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#if !defined(__java_security_acl_Permission__) #define __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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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>");
                } // end if
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
} // end toString
} // end class

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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<code>'</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
{
    /**
     * 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
     */
    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.
   *
   * @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
           *
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/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/lan
g/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
:V95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]^

XM,*$Snop
q *+
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

http://llvm.org

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

```
16/gnu/javasound/AudioSecurityManager$Permission
java/lang/Enum

GAME
1"+E!"
6YKY<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
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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@c Set file name and title for man page.
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@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
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```
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Sh "How to Apply These Terms to Your New Programs"

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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_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)!=(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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<link xmlns:xlink="http://www.w3.org/1999/xlink"
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</appendix>

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Version 3.1, 31 March 2009

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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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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)
y 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',
            'lt-obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
        ])

Open Source Used In Ultra Services Platform Version 6.7
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+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+\[Cc\]i)'  
            '\[Cc\]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.
            '\ls*\s*\=' + ranges + ',?'  
            '@value\{[^{]*\}\s*}'

            # 3: 'by ', if used
            '(by\ls+)'  
            ')'}
# 4: the copyright holder. Don't allow multiple consecutive spaces, so that right-margin gloss doesn't get caught.
# (e.g. gnat_ugn.texi).

# 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)

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

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

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

# Class BadYear():

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,
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:
            %s
        ' % sys.argv[0])
        format = '%-15s %s
            ' % sys.argv[0])
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
        ')
        format = '%-25s
            ' % sys.argv[0])
        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',
        ])
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',

            # Not really part of the library
            'contrib',

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

    def get_line_filter (self, dir, filename):

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

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

            # Not really part of the library
            'contrib',

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

    def get_line_filter (self, dir, filename):

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)
cannon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', cannon_fsf)
self.add_package_author ('Free Software Foundation.', cannon_fsf)
self.add_package_author ('Free Software Foundation Inc.', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('The Free Software Foundation', cannon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('Software Foundation, Inc.', cannon_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.')
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self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
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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',
    'libitm',
    '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.)

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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__

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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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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.doclets.taglets.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;
}
}

1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/Strin

java/util/Map+.put&{java/lang/Object;java/lang/Object;java/lang/Object;
tagletMapLjava/util/Map;copyrightTagletToString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta

BF<dt>
BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright © " + tags[i].text() + "</i></dt>");

/*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 `<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.
*
* `<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 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 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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1998-05-11

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David Megginson, david@megginson.com
2000-05-05

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* m4/ax_func_which_gethostbyname_r.m4

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```
java/security/Permission
java/lang/Object
java/security/Guard
java/io/Serializable
serialVersionUID
ConstantValue
(name=Ljava/lang/String;)
<init>(Ljava/lang/String;)
VCode

LineNumberTable
LocalVariableTable
thisLjava/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();jgetName()Ljava/lan
g/String;
getActionsnewPermissionCollection(&;)Ljava/security/PermissionCollection;toString();gnu/java/lang/CPStringBuilder;

?:>@append*(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass();java/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
**+[]^}
XM,,*$nop
q **+
../012345/*6578,95S:YL+(*(L+-*AEIL+ =L+*LIL*MOQ+ =L+*MIL+)=L+U*
"+7>GNSKWXYZ
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString();Ljava/lang/String;
SourceFilePermission.java
16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javax/sound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[Lgnu/java/lang/Enum;AudioSecurityManager$Permission;<clinit
)>()VCode
<init>(Ljava/lang/String;)V
LineNumberTableLocalVariableTable
thisvalues4()[Lgnu/java/lang/Enum;AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/java/security/Acl/AudioSecurityManager$Permission;
,)-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/java/lang/Enum;AudioSecurityManager$Permission;>:InnerClasses4$gnu/java/sou
nd/AudioSecurityManager
Permission@1@@@
#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 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@mitame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauuchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian DCarlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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IP "17. Interpretation of Sections 15 and 16." 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)))

#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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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>
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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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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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"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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(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
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That's all there is to it!
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 *
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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) {
    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/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()ZinConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+\put8(Ljava/lang/Object;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
/* Permission.java -- The superclass for all permission objects

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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;

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.
 * *
 * *<code>@author</code> Aaron M. Renn (arenn@urbanophile.com)
 * *<code>@see</code> Permissions
 * *<code>@see</code> PermissionCollection
 * *<code>@since</code> 1.1
 * *<code>@status</code> 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>"/

```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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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_gethostname_r.m4

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

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

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

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

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

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

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

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

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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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<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.)
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@setfilenames gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@end ignore
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@item
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@item
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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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/* 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)),\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)\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

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Version 3.1, 31 March 2009

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<signature of Ty Coon>, 1 April 1989
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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
    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',
    'lttirll',
    'ltversion.m4',
    'lt-obsolete.m4',
    'missing',
    'mkdep',
    'mknstalldirs',
    '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:
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 + '|\s*and\s*' + name)

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

# 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+)?'

# 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)

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
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'
    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(['math-68881.h', ])
        self.skip_dirs |= set(['ada', ])

    def skip_dir(self, dir, subdir):
        return True
# 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.
        ])

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

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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.

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#ifndef __java_security_Permission__

Open Source Used In Ultra Services Platform Version 6.7
#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.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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    Copyright:<init>()VCode
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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
*/

```java
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".  
*/
/**
 * 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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* m4/ax_func_which_gethostbyname_r.m4

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Ijavasecurity/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~namejava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisjava/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/lan
g/SecurityManager;

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
**+[[]]^

XM,.*$nop
q *+
-012345/*6578,9S:*L+(*AEIL+ =L+*LIL.*MOQ+ =L+*MIL+)=L+U*
"+7>GNSKWXZY

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;I)V
LineNumberTableLocalVariableTable
thisvalues4()[Lgnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurit
yManager$Permission;
).-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sou
nd/AudioSecurityManager
Permission@1@@@
eAYYYYSYSYG
G'EF
1*+E1'
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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<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@mtiname.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(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.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
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\" ========================================================================
.de Sh \" Subsection heading
.br
.if t .Sp
.nf 5
.PP
\B\$1\F
.PP
.. .de Sp \" Vertical space (when we can't use .PP)
 .. .if t .sp .5v
 .. .if n .sp
...
.de Vb \" Begin verbatim text
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.ne \$1
...
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...
\" Set up some character translations and predefined strings. \*(-- will
" give an unbreakable dash, \*(P 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'\l" diablo 10 pitch
 . if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u'(\(*W\h'-8u'\l" diablo 12 pitch
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 . ds C" "
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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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/* 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,%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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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
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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It was downloaded from http://people.redhat.com/sgrubb/audit/

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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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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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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
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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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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.

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

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

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

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

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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
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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least
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d) If distribution of the work is made by offering access to copy
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e) 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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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
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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.

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entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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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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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2e9 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
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
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.

Command (m for help):

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 -->

<!--hr /-->
<para>
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
</para>
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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()) "" "" "" "" ";
  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 <<
"</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>\n";
    ++i;
}
os << "<a href="#files">Files with no recognised license</a>
";
os << "<a href="#authors">Files with no recognised copyright holder</a>
";
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
";
    os << "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
";
    os << "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
";
    os << "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
";
    os << "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
";
    os << "<a href="#copyright">Copyright Holder Information</a>
";
}

os << "<a href="#depend">File Dependency Information</a>
";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
";
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;
}

os << "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:]]*#\[[[: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 << "The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p><br/>
";
}
// 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">

licence Summary</a>
</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 << "<a name="details">

licence Details</a>
</h2>

while(i != j)
{
    // title:
    os <<
        "<H3>A name="" make_link_target(licenses.first[i->first].license_name)
        "</H3>
    // 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;
        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>&lt;BLOCKQUOTE&gt;<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) << "\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>\n" 
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>&lt;BLOCKQUOTE&gt;<P>&lt;\n";
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 << "</p></BLOCKQUOTE>";
// // Output list of files with no found copyright holder:
// // os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
</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>";

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>\n"
    "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>\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) << "\n";
            os << split_path(i->first, 0) << "<br>\n";
            os << split_path(i->second.first, 0) << "<br>\n";
            os << split_path(i->second.second, 0) << "\n</pre></td><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>\n"
    "The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
</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;
}

// Output list of files that can not be moved over to the Boost Software License

os << "\n\n";

// Output list of files that can NOT be converted to the Boost Software License
hos << "\n\n";

// Output list of authors that we need permission for to move to the BSL

os << "\n\n";

// output a table of copyright information:

os << "\n\n";

std::map<std::string, std::set<fs::path, path_less>> ad, ead;
std::copy(m_author_data.begin(), m_author_data.end(),
std::ostream_iterator<std::string>(os, "\n"));

os << "\n\n";
// output file dependency information:
//
// os << "\n";

// 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;
    }
}

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;
}
if(!os)
{
    stringstream msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":\n    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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//
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//
//
//////////////////////////////////////////////////////////////////////////////

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifdef BOOST_CONFIG_HPP

#endif
#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 <cstdlib>
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
```cpp
{  
    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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// http://www.boost.org/LICENSE_1_0.txt)
//
//
// BOOST_INTERPROCESS_DETAIL_MPL_HPP

#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;
};
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/config.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;
            };

            template <typename T>
            struct is_same<T, T>
            {
                static const bool value = true;
            };

            template<typename T>
            struct is_same<T, void>
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<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 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;            
}; 

//
template <typename X> static char test(int, typename X::TNAME*);

template <typename X> static int test(...);

struct DefaultWrap {
    typedef typename DefaultType::type TNAME;
};

class boost::intrusive::detail::eval_if_c {
    using trait = typename boost::intrusive::detail::eval_if_c<
        value
    , boost::intrusive::detail::identity<T>
    , boost::intrusive::detail::identity<DefaultWrap>
    >::type::TNAME;
};

#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));
};

#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); 
}; \\n//

#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))); 
}; \\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) \\
//

template<typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> 
{ }; \\n//

template<typename T> 
inline T* addressof(T& obj) 
{
  return static_cast<T*>(static_cast<void*>(const_cast<char*>(
}
Boost.Geometry (aka GGL, Generic Geometry Library)

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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(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.)
All the value based traits in this library conform to MPL's requirements for an integral constant:

- `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`).

Purely as an implementation detail, this means that

```cpp
true_type
```

inherits from `boost::mpl::true_`,

```cpp
false_type
```

inherits from `boost::mpl::false_`, and

```cpp
integral_constant<T,v>
```

inherits from `boost::mpl::integral_c<T,v>`.
/*
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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>";
    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)
{
    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>
if(!m_bsl_summary_mode)
os << "<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>
"<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:
//
<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;
}
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:]*]*#\[[[: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 << "." << version % 100 << "<br>";
}

//
// 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" << 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 << "\\"";</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>\n";
while(i != j)
{
    // title:
os << \\
"\H3<<A name="" << make_link_target(licenses.first[i->first].license_name) \\
   "">" << 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 << *x " <BR>\n";
    ++x;
}
os << "</p>\n";</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>\n";
    ++m;
}
os << "</P><BLOCKQUOTE>
";
}
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><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>\n";
    ++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>
";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++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>";
The following \(m_{\text{converted to bsl}.size()}\) files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

\[
\text{\begin{verbatim}
if (!m_{\text{converted to bsl}.empty()})
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_{\text{converted to bsl}.begin()},
    ie = m_{\text{converted to bsl}.end()};
    int file_num = 1;
    while (i != ie)
    {
        os << "\"\"File: \"<< split_path(m_boost_path, i->first) << "\"\n\"<tr>\n\"<td><pre>\n\"<\pre>\n\"<\td>\n\"<\tr>\n\"<\table>\n\";
        ++i;
        ++file_num;
    }
}
\end{verbatim}}
\]

Output list of files that could be moved over to the Boost Software License:

Files that could be converted to the Boost Software License:

\[
\text{\begin{verbatim}
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\"\n;
    ++i2;
}
os << "/\"</BLOCKQUOTE>";
\end{verbatim}}
\]

Output list of files that can not be moved over to the Boost Software License:

Files that can NOT be converted to the Boost Software License:

\[
\text{\begin{verbatim}
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\"\n;
    ++i2;
}
os << "/\"</BLOCKQUOTE>";
\end{verbatim}}
\]
// 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>.

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</H2>";
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 << "</td><tr>
";
    ++ad;
}

os << "</table>"
;

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2>";
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();
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

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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@mitiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauuchmann@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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// http://www.boost.org/LICENSE_1_0.txt)
//
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#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 <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 const type;
};

}}
}
#endif

} // namespace boost

} // namespace intrusive

#include <boost/intrusive/detail/config_end.hpp>
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);
};
#endif
#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
    {
        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::if_c                         \
            <value, T, DefaultWrap::type::TNAME type; \
        }; \
    };

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::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
  {\n    template<bool Add>\n    struct two_or_three {one _[2 + Add];};\n    template <class U> static one test(...);\n    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\n    static const std::size_t value = sizeof(test<T>(0));\n  };\n  \n  template <class T>
  struct TRAITS_PREFIX##_bool_is_true
  {\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) \    
  template <typename U, typename Signature> \    
  class TRAITS_NAME \    
  {\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) \
    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 detail 
    //namespace intrusive 
    //namespace boost 

#include <boost/intrusive/detail/config_end.hpp>

#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

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cassert>
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;

#endif


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 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_;
};

} //namespace ipc_detail
} //namespace interprocess
} //namespace boost

#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_;
};

} //namespace ipc_detail
} //namespace interprocess
} //namespace boost

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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 {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#endif

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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 `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`).
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`)

[sect]
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'^\s*\(c\)\s+copyright\s+\(c\)?\s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+%s+\s*$', line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            names.append(d['name'].strip())
            lines.append(i)
        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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<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--[CDATA[ -->
<ulink url="../../../index.htm">
  <imagedata align="left" format="GIF" fileref="../../../boost.png" alt="C++ Boost" />
</ulink> --></ulink>
<para>
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Boost.Geometry (aka GGL, Generic Geometry Library)

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//
//
///

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_H
#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cstddef>
namespace boost {
namespace interprocess {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_H
#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 {

//ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
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#endif //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 {

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 T>
{  typedef T type;   };

} // namespace detail
} // namespace intrusive
} // namespace boost

} // namespace Open Source Used In Ultra Services Platform Version 6.7
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];
};

#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 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>\ 
    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(); \ 
      }
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*>(
        reinterpret_cast<const char&>(obj))
    );
}

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

//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`)

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.dec.com) and Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.cs.d.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/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 align="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../doc/boost.png"></td>
</tr>
</table>
"
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">false_</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>`).
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():

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 http://www.boost.org/LICENSE_1_0.txt).
]
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 + 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}(\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 >>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>
</title>
<!--ulink url="../../../index.htm">
<imagedata align="left" format="GIF"
    fileref="../../../boost.png"
    alt="C++ Boost" />
</ulink--> <!--hr /-->
<para>
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
</para>
<para>
Copyright &amp;#169; 2002 CrystalClear Software, Inc.
</para>
<para>
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</para>
<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
&amp;#169; 2000-2002
</section>

Boost.Geometry (aka GGL, Generic Geometry Library)
Maybe this should pass?
/*
 *
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* 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\" \n"
"<head>\n"  
"<title>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>  
"<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="#"" << make_link_target(licenses.first[i->first].license_name)
   << ">"" << licenses.first[i->first].license_name << "</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...\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 &lt;b&gt;NOT&lt;/b&gt; 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>  
"</pre>";  
//
// input Information:
//
ostringstream os("<a name="input"></a><h2>Input Information</h2>");
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;
}
ostringstream os("<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("^\s*#define BOOST_VERSION\((\d+)\$\))
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));
ostringstream os("<p>The Boost version is: " << version / 100000 << "." << version / 100 % 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:
    //
ostringstream os("<a name="summary"></a><h2>Licence Summary</h2>");
    while(i != j)
    {
        // title:
        ostringstream os("" << licenses.first[i->first].license_name << "" << j


// 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 << "<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:<P>\n<BLOCKQUOTE>\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<BLOCKQUOTE>\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";
}
// 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:" << \n";  
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:" << \n";  
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.
//  
}
Files that can be automatically converted to the Boost Software License:

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

<table>
<thead>
<tr>
<th>File:</th>
<th>Pre</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td></td>
</tr>
</tbody>
</table>

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:

The following files cannot be converted to the Boost Software License because we need the permission of more authors:
Authors we need for the BSL

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>

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "<br/>
"));
```

Copyright Holder Information

```cpp
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></tr>
    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 << "</tr></table>
    ++ad;
}
```

File Dependency Information

```cpp
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>\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]
]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
<?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:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</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>
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on
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+/\ 
+\Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc. 
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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 (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@mtiage.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 Detlfs(detlfs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agle@utl.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.cs.dia.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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Open Source Used In Ultra Services Platform Version 6.7
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifdef BOOST_CONFIG_HPP
    #include <boost/config.hpp>
    #endif

#ifdef(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;   };

}}
}

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5239
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);
};
#endif
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);
};

#else

#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 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<
, ::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\n   boost_intrusive_eval_default_type_##TNAME<T, TIMPL>::type\n
//

#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;\};\n
//

#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);\};\n

#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*>(reinterpret_cast<const char&>(obj)));
    } 
    
    //namespace intrusive 
    //namespace boost 
    //namespace detail 

#include <boost/intrusive/detail/config_end.hpp>
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);
};

#ifdef

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;

typed 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; };
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 {

#include <boost/config.hpp>

#if defined(BOOST_CONFIG_HPP)
    # include <boost/config.hpp>
# endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
    # pragma once
# endif

#include <cassert>

namespace boost {

namespace interprocess {

namespace ipcdetail {

} // namespace ipcdetail {

} // namespace interprocess {

} // namespace boost {

);//namespace container_detail {
} //namespace container {
} //namespace boost {

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// http://www.boost.org/LICENSE_1_0.txt)


//
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

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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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

```plaintext
true_type inherits from boost::mpl::true_
false_type inherits from boost::mpl::false_
integral_constant<T, v> inherits from boost::mpl::integral_c
```

(provided `T` is not bool)

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Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant, Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven Watanabe

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an \[\texttt{@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type}\]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `\`\_true_type\` inherits from \[\texttt{@../../../../libs/mpl/doc/refmanual/bool.html \texttt{boost::mpl::true\_}}\], `\`\_false_type\` inherits from \[\texttt{@../../../../libs/mpl/doc/refmanual/bool.html \texttt{boost::mpl::false\_}}\], and `\`\_integral_constant\langle T, v \rangle\` inherits from \[\texttt{@../../../../libs/mpl/doc/refmanual/integral-c.html \texttt{boost::mpl::integral\_c\langle T,v \rangle}}\] (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'^(?P<prefix>.*?copyright.*?\(c\)){\(\c\)?}\s*\d{4}(\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 >>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)

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<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>&#169; 2000-2002
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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 {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

typedef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#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 ipc
detail {
} //namespace interprocess {
} //namespace boost {

.isHidden  //ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
-placement

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//

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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5271
#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;   };

        } // namespace detail
    } // namespace intrusive
} // namespace boost

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;
};
#endif

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
    {
        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>\  
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();
};

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)


namespace boost
{
    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 detail

    //namespace intrusive

    //namespace boost

    #include <boost/intrusive/detail/config_end.hpp>

    #endif //BOOST_INTRUSIVE_DETAIL_MPL_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 `__false_type` inherits from `__integral_constant<T, v>` (provided `T` is not `bool`)

[endsect]

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 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.ess.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@grucho.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 `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost::mpl::true_</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">boost::mpl::false_</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">boost::mpl::integral_c</code>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`).
#!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*(\(c\))? copyright \(c\)? \d{4}(\-\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 >>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)

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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() << ">";</nreturn 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 << "\n";
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
"if(!m_bsl_summary_mode)
  "<a href="#summary">Licence Summary</a>
"<a href="#details">Licence Details</a>
"while(i != j)
  "{ title:
    "<a href="#files">Files with no recognised license</a>
    "<a href="#authors">Files with no recognised copyright holder</a>
"if(!m_bsl_summary_mode)
  "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>
"</pre>
""/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;
}

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:]]*\#\[[[: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 << "," << 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"></a><h2>Licence Summary</h2>
    Licence Summary
    while(i != j)
    {
        // title:
        os <<"<h2>";
os << split_path(m_boost_path, *m) << "<br>
";
++m;
}

os << "</P></BLOCKQUOTE>
";
}
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>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>
";
"<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.
Files that can be automatically converted to the Boost Software License:

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
os << "Files that can be automatically converted to the Boost Software License:\n";
```

```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><table border="1">

            <tr><td><pre>
            " << i->second.first << "</pre></td><td><pre>
            " << i->second.second << "</pre></td></tr>
        </table>\n"
        ++i;
        ++file_num;
    }
}
```

Files that could be converted to the Boost Software License:

```cpp
os << "Files that could be converted to the Boost Software License:\n";
```

```cpp
os << "<P>The following files could be manually converted to the Boost Software License, but have not yet been:\n";
```

```cpp
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
```

Files that can NOT be converted to the Boost Software License:

```cpp
os << "Files that can NOT be converted to the Boost Software License:\n";
```

```cpp
os << "<P>The following files cannot be converted to the Boost Software License because we need the permission of more authors:\n";
```

```cpp
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
++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>

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 </H2><table border="1">

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><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><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)


```cpp
{
    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>
);

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);
}

[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe
[copyright 1977,1985 Someone else]
]  
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]  
<?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:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
    <copyright>
        <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </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>
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]  

Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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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@jadex.ssd.cs哈里斯.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

#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 const T type;   };

}}

#endif

{ 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
 , 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)); \
  };
  \
  typedef typename TRAITS_PREFIX##_bool<T>::value \
  BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE<TRAITS_PREFIX, TYPEDEF_TO_FIND>::type;
}

#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();
  };
  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 T, 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 detail
} //namespace intrusive
} //namespace boost
#include <boost/intrusive/detail/config_end.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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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; }
};

} // namespace container_detail
} // namespace container
} // namespace boost

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/config_end.hpp>

}} // boost/container

#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; }
};

} // namespace container_detail
} // namespace container
} // namespace boost

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/config_end.hpp>
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);
};
#endif

#else

#endif
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<typename C, typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

template<typename C, typename T1, typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename C, 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;   }

cnst 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_>

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_>

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(S_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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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 <code class="computeroutput">true_type</code> inherits from <code class="computeroutput">boost::mpl::true_</code>, <code class="computeroutput">false_type</code> inherits from <code class="computeroutput">boost::mpl::false_</code>, and <code class="computeroutput">integral_constant</code> inherits from <code class="computeroutput">boost::mpl::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](../../../../../libs/mpl/doc/refmanual/integral-constant.html): 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_`](../../../../../libs/mpl/doc/refmanual/bool.html), `__false_type` inherits from [`boost::mpl::false_`](../../../../../libs/mpl/doc/refmanual/bool.html), and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`](../../../../../libs/mpl/doc/refmanual/integral-c.html) (provided `T` is not `bool`).
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'^\s*\((c)\)? \(c\)? copyright \(c\)\d{4}(\s*\-\s*\d{4})?\s+\d{4}\s*\(\s*\d{4}\)?\s+(?P<name>\.+)?\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                names.append(d['name'].strip())
                lines.append(i)
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]
    return prefix
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)

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<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--hr /-->
<para>
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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>

ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#endif

ifndef BOOST_CONFIG_HPP

#endif
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;  }
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;
};
#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 {

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;   };

} // namespace detail
} // namespace intrusive
} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>
{ 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
 , 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 <typename T> 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>     
        , value>::type::TNAME type;                        
  };                                                             
  //
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 boost {

} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>

// The rest of the Boost Intrusive library code

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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:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</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 [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]
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@mntame.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 (bde@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 Dettefs(dettefs@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.)
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

```c++
true_type
false_type
integral_constant<T, v>
```

(provided
def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%09%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'^(?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 >>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"
        fileref="../../../boost.png"
        alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
</para>
<para>
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</para>
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</para>
<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink> © 2000-2002
</section>
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?
/*
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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::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);
    }
}
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
"<a href="#summary">Licence Summary</a>
"<a href="#details">Licence Details</a>
"<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
"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 <b>NOT</b> 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>
"<a href="#depend">File Dependency Information</a>
"</pre>
"<a href="#input">Input Information</a>
"<a href="#summary">Licence Summary</a>
"<a href="#details">Licence Details</a>
"<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
"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 <b>NOT</b> 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>
"<a href="#depend">File Dependency Information</a>
"
"</pre>";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
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;
}
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("^\[[:blank:]*\]#\[[: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 << "The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
    << "</p><h2>Licence Summary</h2>

//
// 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>\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="#">(see details)</a>";
++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) << "">" << licenses.first[i->first].license_name << "</A></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></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></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) << "\n";
    ++m;
}
    os << "</P></BLOCKQUOTE>";
} else {
    os << "<P>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 << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
";
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 << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:

os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
    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>";

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>\n";

// 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>&nbsp;<table border="1"&gt;&lt;tr\n    &lt;td&gt;&lt;pre&gt;
    &lt;i&gt;second.first &lt;&lt; "&lt;/pre&gt;&lt;/td\n    &lt;td&gt;&lt;pre&gt;
    &lt;i&gt;second.second &lt;&lt; "&lt;/pre&gt;&lt;/td\n    &lt;tr\n&lt;/table&gt;&lt;\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>\n";

"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
// Software License, but have not yet been:\n";
    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>\n";
//
// 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>\n";

"<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:\n";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
// Output list of authors that we need permission for to move to the BSL
//
// 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>.<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:
//
// a table border="1"
std::map<std::string, std::set<fs::path, path_less> > const_iter 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:
//
// File Dependency Information
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();
while(fi != efi)
{ 
    os << split_path(m_boost_path, *fi) << 
    ++fi;
}

os << "</H2><tr><h3><p>

// 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 = mConvertedToBsl.begin(),
    ie = mConvertedToBsl.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();
        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())
                    
                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";
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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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 (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@mtia.mpia.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.cs.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

#if defined(BOOST_CONFIG_HPP)
#include <boost/config.hpp>
#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;
};


}}}}

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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
    , 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];};
 struct <class U> static one test(...);
 struct <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);

#pragma once

#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);\n    static ::boost::intrusive::detail::yes_type check(...);
    static 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) \nBOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

template <typename Type, class> \nstruct TRAITS_NAME : public TRAITS_NAME##_ignore_signature<Type>{}

#pragma once

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(\n        static_cast<void*>(\n            reinterpret_cast<const char&>(obj))\n    );
}

} //namespace intrusive
} //namespace boost
#include <boost/intrusive/detail/config_end.hpp>

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// http://www.boost.org/LICENSE_1_0.txt)

#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;
};

} // namespace ipcdetail {
} // namespace interprocess {
} // namespace boost {

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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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

- `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a> <code class="computeroutput">true_</code>.
- `<code class="computeroutput">false_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a> <code class="computeroutput">false_</code>.
- `<code class="computeroutput">integral_constant<T, v></code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">boost</a> <code class="computeroutput">integral_c</code>`.

(provided <code class="computeroutput">T</code> is not boolean)
[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'^(?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 >>f, prefix + repl
        else:
            print >>f, line,
pas

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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<!--
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<!--hr /-->

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man/strlcpy.3
man/strtonum.3
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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_lurd.c
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src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.143 libc-bin 2.23 :0ubuntu10

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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

1.144 libc-dev-bin 2.23 :0ubuntu10
1.144.1 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 R6.1p11-3.2.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*
The Program dga didn’t compile, but I have not check out why.)

Now you can copy the resulting libs

```
cp XF3.2/xc/lib/*/*.so.?..? /usr/X11R6/lib/
```

and create some links

```
cd /usr/X11R6/lib/
ln -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
+#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

#ifdef OptimizedCDebugFlagsDefaultGcc2i386Opt -m486
+#ifdef OptimizedCDebugFlagsDefaultGcc2i386Opt -m486 -pipe
#endif

#define StandardDefines -Dlinux -D__i386__ -D_POSIX_SOURCE
-DBSD_SOURCE -DSVID_SOURCE -DX_LOCALE
+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 CplusplusLibC
-#define SharedX11Reqs
+#define SharedX11Reqs -L$(BUILDLIBDIR) -lXThrStub
#define SharedOldXReqs $(LDPRELIB) $(XLIBONLY)
#define SharedXtgReqs $(LDPRELIB) $(XLIBONLY) $(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_
+if defined(_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_ */
+    #if defined(_DECTHREADS_) || linux */
+    #ifdef DEBUG */ too much of a hack to enable normally */
+    /* see also cma__obj_set_name() */

Open Source Used In Ultra Services Platform Version 6.7
diff -u --recursive XF3.2.orig/c/lib/X11/util/makekeys.c XF3.2/c/lib/X11/util/makekeys.c
+++ XF3.2/c/lib/X11/util/makekeys.c	Sat Nov  9 00:44:14 1996
@ @ -73,7 +73,7 @@
    register char c;
    int first;
    int best_max_rehash;
    int best_z;
    int num_found;
    KeySym val;

diff -u --recursive XF3.2.orig/c/lib/XThrStub/Imakefile XF3.2/c/lib/XThrStub/Imakefile
--- XF3.2.orig/c/lib/XThrStub/Imakefile	Sun Nov 10 17:08:12 1996
+++ XF3.2/c/lib/XThrStub/Imakefile	Sat 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/c/lib/XThrStub/UIThrStubs.c XF3.2/c/lib/XThrStub/UIThrStubs.c
--- XF3.2.orig/c/lib/XThrStub/UIThrStubs.c	Sun Nov 10 17:08:12 1996
+++ XF3.2/c/lib/XThrStub/UIThrStubs.c	Sun Nov 10 15:14:55 1996
@ @ -37,16 +37,43 @@
    */
    #if defined(linux)
    +#include <pthread.h>
    +#else
    #include <thread.h>
    #include <synch.h>
    +#endif

    +#if defined(linux)
    +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_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_lock = __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);
} 
+#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;
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

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>. Errno 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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Preamble
========

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

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

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

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

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

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

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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.

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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
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derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the
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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
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:

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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 http://www.eglibc.org.

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:

- i[34567]86-*-linux-gnu
- x86_64-*-linux-gnu
- powerpc-*-linux-gnu
- powerpc64-*-linux-gnu
- s390-*-linux-gnu
- s390x-*-linux-gnu
- ia64-*-linux-gnu
- sparc-*-linux-gnu
- sparc64-*-linux-gnu

sh[34]-*-linux-gnu Requires Linux 2.6.11

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-gnueabí 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.

Please see http://www.gnu.org/software/libc/bugs.html for bug reporting information. We are now using the Bugzilla system to track all bug reports. This web page gives detailed information on how to report bugs properly.

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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 `/etc/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;
```
Then in the BIND working directory (usually `/var/named') create the file `named.hesiod' containing data that looks something like:

```bind
; 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 an 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_fmodl.c
e_hypotl.c
e_j0l.c
e_j1l.c
e_jnl.c
e_lgammal_r.c
e_logl.c
e_log10l.c
e_powl.c
e_rem_pio2l.c
e_sinhl.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 asin(x) = x + x^3/6 + x^5*5/40 + x^7*15/336 + ...
*we approximate asin(x) on [0.0.5] by
*asin(x) = x + x*x^2*R(x^2)
*where
*R(x^2) is a rational approximation of (asin(x)-x)/x^3
*and its remez error is bounded by
*|(asin(x)-x)/x^3 - R(x^2)| < 2^-58.75
* For \( x \) in \([0.5, 1]\)
* \( \text{asin}(x) = \pi/2 - 2^{*}\text{asin}(\sqrt{(1-x)/2}) \)
* Let \( y = (1-x), z = y/2, s := \sqrt{z} \), and \( \text{pio2\_hi} + \text{pio2\_lo} = \pi/2; \)
* then for \( x > 0.98 \)
* \( \text{asin}(x) = \pi/2 - 2^{*}(s+s^{*}z^{*}R(z)) \)
* \( = \text{pio2\_hi} - (2^{*}(s+s^{*}z^{*}R(z)) - \text{pio2\_lo}) \)
* For \( x \leq 0.98 \), let \( \text{pio4\_hi} = \text{pio2\_hi}/2 \), then
* \( f = \text{hi part of } s; \)
* \( c = \sqrt{z} - f = (z-f^{*}f)/(s+f) \ldots f+c=\sqrt{z} \)
* and
* \( \text{asin}(x) = \pi/2 - 2^{*}(s+s^{*}z^{*}R(z)) \)
* \( = \text{pio4\_hi} + \text{pio4\_lo} - (2^{*}z^{*}R(z) - \text{pio2\_lo}) \)
* \( = \text{pio4\_hi} + \text{pio4\_lo} - (2^{*}z^{*}R(z) - \text{pio2\_lo} + 2c) \)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\text{arccos}

~~~~~~~~

* Method : 
* \( \text{acos}(x) = \pi/2 - \text{asin}(x) \)
* \( \text{acos}(-x) = \pi/2 + \text{asin}(x) \)
* For \( |x| \leq 0.5 \)
* \( \text{acos}(x) = \pi/2 - (x + x^{*}x^{*}2^{*}R(x^{*}2)) \)(see asin.c)
* For \( x > 0.5 \)
* \( \text{acos}(x) = \pi/2 - (\pi/2 - 2^{*}\text{asin}(\sqrt{(1-x)/2})) \)
* \( = 2^{*}\text{asin}(\sqrt{(1-x)/2}) \)
* \( = 2f + (2c + 2^{*}z^{*}R(z)) \)
* where \( f = \text{hi part of } s \), and \( c = (z-f^{*}f)/(s+f) \) is the correction term
* for \( f \) so that \( f+c \approx \sqrt{z} \).
* For \( x < 0.5 \)
* \( \text{acos}(x) = \pi - 2^{*}\text{asin}(\sqrt{(1-|x|)/2}) \)
* \( = \pi - 0.5^{*}(s+s^{*}z^{*}R(z)), \) where \( z=(1-|x|)/2, s=\sqrt{z} \)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\text{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):
* \( \text{ARG} (x+iy) = \text{arctan}(y/x) \ldots \text{if } x > 0, \)
* \( \text{ARG} (x+iy) = \pi - \text{arctan}(y/(-x)) \ldots \text{if } x < 0, \)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\text{atan}

~~~~~~

* Method
* 1. Reduce \( x \) to positive by \( \text{atan}(x) = \text{-atan}(-x) \).
* 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:
exp

* Method
* 1. Argument reduction:
  * Reduce x to an r so that |r| <= 0.5*ln2 ~ 0.34658.
* 2. Approximation of exp(r) by a special rational function on
  *the interval [0,0.34658]:
  * Write
  * \[ R(r^2) = r \cdot \frac{\exp(r)+1}{\exp(r)-1} = 2 + \frac{r^3}{6} - \frac{r^4}{360} + \ldots \]
  * a polynomial of degree 5 to approximate R. The maximum error
  *of this polynomial approximation is bounded by 2**-59. In
  *other words,
  * \[ R(z) \sim 2.0 + P1 \cdot z + P2 \cdot z^2 + P3 \cdot z^3 + P4 \cdot z^4 + P5 \cdot z^5 \]
  * (where \(z=r^r\), and the values of P1 to P5 are listed below)
  *and
  * \[ | 5 | -59 \]
  * \[ | 2.0+P1 \cdot z+\ldots+P5 \cdot z | - R(z) | \leq 2 \]
  * The computation of exp(r) thus becomes
  * \[ 2^r \]
  * \[ \exp(r) = 1 + \ldots \]
* 3. Scale back to obtain exp(x):
* From step 1, we have
* \[ \exp(x) = 2^k \cdot \exp(r) \]
hypot

---

*If (assume round-to-nearest) \( z = x^2 + y^2 \)
* has error less than \( \sqrt{2}/2 \) ulp, than
* \( \sqrt{z} \) has error less than 1 ulp (exercise).
*
*So, compute \( \sqrt{x^2 + y^2} \) 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
* \( x_1^2 + y^2 + (x_2^2(x + x_1)) \) for \( x^2 + y^2 \)
* where \( x_1 = x \) with lower 32 bits cleared, \( x_2 = x - x_1 \); else
*2. if \( x \leq 2y \) use
* \( t_1^2(y_1^2 + (x - y)^2) + (t_1^2y_2 + t_2^2y) \)
* where \( t_1 = 2x \) with lower 32 bits cleared, \( t_2 = 2x - t_1 \),
* \( y_1 = y \) with lower 32 bits chopped, \( y_2 = y - y_1 \).
*
*NOTE: scaling may be necessary if some argument is too
* large or too tiny

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

j0/y0

~~~

* Method -- \( j_0(x) \):
*1. For tiny \( x \), we use \( j_0(x) = 1 - x^2/4 + x^4/64 - \ldots \)
*2. Reduce \( x \) to \(|x|\) since \( j_0(x) = j_0(-x) \), and
* for \( x \) in (0,2)
* \( j_0(x) = 1 - z/4 + z^2 R_0/S_0 \), where \( z = x^2x \);
* (precision: \( |j_0 - 1 + z/4 - z^2 R_0/S_0| < 2^{-63.67} \))
* for \( x \) in (2,inf)
* \( j_0(x) = \sqrt{2/(\pi x)}(p_0(x) \cos(x) - q_0(x) \sin(x)) \)
* where \( x = x - \pi/4 \). It is better to compute \( \sin(x), \cos(x) \)
* as follow:
* \( \cos(x) = \cos(x) \cos(\pi/4) + \sin(x) \sin(\pi/4) \)
* \( = 1/\sqrt{2} \) * (\( \cos(x) + \sin(x) \))
* \( \sin(x) = \sin(x) \cos(\pi/4) - \cos(x) \sin(\pi/4) \)
* \( = 1/\sqrt{2} \) * (\( \sin(x) - \cos(x) \))
* (To avoid cancellation, use
* \( \sin(x) \pm \cos(x) = -\cos(2x)/(\sin(x) \mp \cos(x)) \)
* to compute the worse one.)
*
* Method -- \( y_0(x) \):
*1. For \( x < 2 \).
* Since
* \( y_0(x) = 2/\pi * (j_0(x) * (\ln(x/2) + \text{Euler}) + x^2/4 \) - \ldots \)
* therefore \( y_0(x) - 2/\pi * j_0(x) * \ln(x) \) is an even function.
* We use the following function to approximate \( y_0 \),

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5520
\[ y_0(x) = \frac{U(z)}{V(z)} + \frac{2}{\pi}j_0(x)\ln(x), \quad z = x^2 \]

* where

\[ U(z) = u_{00} + u_{01}z + \ldots + u_{06}z^6 \]
\[ V(z) = 1 + v_{01}z + \ldots + v_{04}z^4 \]

* with absolute approximation error bounded by \(2^{-72}\).

* Note: For tiny \(x\), \(U/V = u_0\) and \(j_0(x) \approx 1\), hence

\[ y_0(tiny) = u_0 + \frac{2}{\pi}\ln(tiny), \quad \text{(choose tiny < } 2^{-27} \) \]

* For \(x \geq 2\).

\[ y_0(x) = \sqrt{\frac{2}{\pi x}}(p_0(x)\cos(x_0) + q_0(x)\sin(x_0)) \]

* where \(x_0 = x - \pi/4\). It is better to compute \(\sin(x_0), \cos(x_0)\)

---

\[ j_1/y_1 \]

* Method -- \(j_1(x)\):

* For tiny \(x\), we use \(j_1(x) = x/2 - x^3/16 + x^5/384 - \ldots\)

* Reduce \(x\) to \(|x|\) since \(j_1(-x) = -j_1(x)\), and

* For \(x \in (0, 2)\)

\[ j_1(x) = x/2 + x^2R_0/S_0, \quad \text{where } R_0 = x^3/24 - x^5/80 + \ldots \]

* (precision: \(|j_1/x - 1/2 - R_0/S_0| < 2^{-61.51}\) )

* For \(x \in (2, \infty)\)

\[ j_1(x) = \sqrt{\frac{2}{\pi x}}(p_1(x)\cos(x_1) - q_1(x)\sin(x_1)) \]

* where \(x_1 = x - 3\pi/4\). It is better to compute \(\sin(x_1), \cos(x_1)\)

* as follow:

\[ \cos(x_1) = \cos(x)\cos(3\pi/4) + \sin(x)\sin(3\pi/4) \]
\[ = \frac{1}{\sqrt{2}}(\sin(x) - \cos(x)) \]
\[ \sin(x_1) = \sin(x)\cos(3\pi/4) - \cos(x)\sin(3\pi/4) \]
\[ = -\frac{1}{\sqrt{2}}(-\cos(2x)/(\sin(x) - \cos(x)) \]

* (To avoid cancellation, use

* \(\sin(x) \pm \cos(x) = -\cos(2x)/(\sin(x) \mp \cos(x))\)

* to compute the worse one.)

* Method -- \(y_1(x)\):

* screen out \(x \leq 0\) cases: \(y_1(0) = -\infty\), \(y_1(x < 0) = NaN\)

* For \(x < 2\).

* Since

\[ y_1(x) = 2/\pi j_1(x)(\ln(x) + \text{Euler}) - 1/x - x/2 + 5/64x^3 - \ldots \]

* therefore \(y_1(x) - 2/\pi j_1(x)/x\) is an odd function.

* We use the following function to approximate \(y_1\),

\[ y_1(x) = x^2U(z)/V(z) + (2/\pi)j_1(x)\ln(x)/x, \quad z = x^2 \]

* where \(x \in [0, 2]\) (abs err less than \(2^{-65.89}\))

\[ U(z) = U_{00} + U_{01}z + \ldots + U_{04}z^4 \]
\[ V(z) = 1 + v_{01}z + \ldots + v_{04}z^5 \]

* Note: For tiny \(x\), \(1/x\) dominate \(y_1\) and hence

\[ y_1(tiny) = -2/\pi \text{tiny}, \quad \text{(choose tiny < } 2^{-54} \) \]

* For \(x \geq 2\).

\[ y_1(x) = \sqrt{\frac{2}{\pi x}}(p_1(x)\sin(x_1) + q_1(x)\cos(x_1)) \]
* where x1 = x-3*pi/4. It is better to compute sin(x1),cos(x1)
* by method mentioned above.

\[
\begin{align*}
\text{jn/yn} \\
\text{Note 2. About jn(n,x), yn(n,x)}
\end{align*}
\]

* 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:

\[
\begin{align*}
\text{/* (x >> n**2)}
\text{*/ Jn(x) = cos(x-(2n+1)*pi/4)*sqrt(2/x*pi)}
\text{Yn(x) = sin(x-(2n+1)*pi/4)*sqrt(2/x*pi)}
\text{Let s=sin(x), c=cos(x),}
\text{xn=x-(2n+1)*pi/4, sqrt2 = sqrt(2), then}
\text{*/}
\text{*/ nsin(xn)*sqrt2cos(xn)*sqrt2}
\text{--------------------------}
\text{*/ 0 s-c c+s}
\text{*/ 1-s-c -c+s}
\text{*/ 2-s+c-c-s}
\text{*/ 3 s+c c-s}
\text{*/}
\text{*/ x is tiny, return the first Taylor expansion of J(n,x)}
\text{*/ J(n,x) = 1/n!*(x/2)^n  - ...}
\text{*/}
\text{*/ use backward recurrence */}
\text{*/ x x^2 x^2}
\text{*/ J(n,x)/J(n-1,x) = ---- ----- ----- ....}
\text{*/2n - 2(n+1) - 2(n+2)}
\text{*/}
\text{*/ 1 1 1}
\text{*/ (for large x) = ---- ----- ----- ....}
\text{*/2n 2(n+1) 2(n+2)}
\text{*/ ...
\text{*/ x x x}
Let \( w = \frac{2n}{x} \) and \( h = \frac{2}{x} \), then the above quotient is equal to the continued fraction:

\[
\frac{1}{w - \frac{1}{w + h - \frac{1}{w + 2h - \ldots}}}
\]

To determine how many terms needed, let

\[
Q(0) = w, \quad Q(1) = w(w+h) - 1,
\]

\[
Q(k) = (w+k*h)Q(k-1) - Q(k-2),
\]

When \( Q(k) > 10^4 \) good for single

When \( Q(k) > 10^9 \) good for double

When \( Q(k) > 10^{17} \) 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

then recurrent value may overflow and the result is

likely underflow to zero

... 

\[
y_n: \quad (x >> n**2)
\]

* \( J_n(x) = \cos(x-(2n+1)*\pi/4)\sqrt{2/x*\pi} \)

* \( Y_n(x) = \sin(x-(2n+1)*\pi/4)\sqrt{2/x*\pi} \)

Let \( s = \sin(x), \ c = \cos(x), \)

\( x_n = x-(2n+1)*\pi/4, \ \sqrt{2} = \sqrt{2}, \) then

* \( n\sin(xn)\sqrt{2}\cos(xn)\sqrt{2} \)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~

lgamma

~~~~~~~~~

* Method:

* 1. Argument Reduction for \( 0 < x \leq 8 \)

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

* \( \log(s) + \Gamma(s) \)
*for example,
  *lgamma(7.3) = log(6.3) + lgamma(6.3)
  * = log(6.3*5.3) + lgamma(5.3)
  * = log(6.3*5.3*4.3*3.3*2.3) + lgamma(2.3)
  *
 2. Polynomial approximation of lgamma around its
minimum ymin=1.461632144968362245 to maintain monotonicity.
  *On [ymin-0.23, ymin+0.27] (i.e., [1.23164,1.73163]), use
  *Let z = x-ymin;
  *lgamma(x) = -1.214862905358496078218 + z^2*poly(z)
  *
  *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;
  *lgamma(x) = 0.5*s + s*P(s)/Q(s)
  *
  *with accuracy
  *|P/Q - (lgamma(x)-0.5s)| < 2**-61.71
  *
  *Our algorithms are based on the following observation
  *
  zeta(2)-1 2 zeta(3)-1 3
  * lgamma(2+s) = s*(1-Euler) + --------- * s - --------- * s + ...
  *
  2 3
  *
  *where Euler = 0.5771... is the Euler constant, which is very
  *close to 0.5.
  *
  3. For x>=8, we have
*lgamma(x)-(x-0.5)log(x)-x+0.5*log(2pi)+1/(12x)-1/(360x**3)+....
*(better formula:
  * lgamma(x)-(x-0.5)*(log(x)-1)-5*(log(2pi)-1) + ...)
  *
  *Let z = 1/x, then we approximation
  *f(z) = lgamma(x) - (x-0.5)(log(x)-1)
  *
  *by
  * 3 5 11
  *w = w0 + w1*z + w2*z + w3*z + ... + w6*z
  *
  *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)*G(-x))
  *
since G(-x) is positive, sign(G(x)) = sign(sin(pi*x)) for x<0
  *
  *Hence, for x<0, signgam = sign(sin(pi*x)) and
  *lgamma(x) = log(|Gamma(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 * (1+f),
   * where sqrt(2)/2 < 1+f < sqrt(2).
* 2. Approximation of log(1+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) ~ Lg1*s +Lg2*s +Lg3*s +Lg4*s +Lg5*s +Lg6*s +Lg7*s
* (the values of Lg1 to Lg7 are listed in the program)
*and
* 2 14 -58.45
* | Lg1*s +...+Lg7*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(1+f) = f - s*(f - 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 log10_2hi = leading 40 bits of log10(2) and
* log10_2lo = log10(2) - log10_2hi,
* ivln10 = 1/log(10) rounded.
* Then
* n = ilogb(x),
* if(n<0) n = n+1;
* x = scalbn(x,-n);
* log10(x) := n*log10_2hi + (n*log10_2lo + ivln10*log(x))
* Note 1:
To guarantee \( \log_{10}(10^n) = n \), where \( 10^n \) is normal, the rounding
*mode must be 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.

\[
\begin{align*}
\text{pow} \\
\text{~~~}
\end{align*}
\]
*Method: Let \( x = 2^t (1+f) \)
*1. Compute and return \( \log_2(x) \) in two pieces:
\( \log_2(x) = w_1 + w_2 \),
* where \( w_1 \) has 53-24 = 29 bit trailing zeros.
*2. Perform \( y \cdot \log_2(x) = n+y' \) by simulating muti-precision
* arithmetic, where \( |y'| \leq 0.5 \).
*3. Return \( x^y = 2^n \cdot \exp(y' \cdot \log_2) \)
*
*Special cases:
*1. \( \text{(anything)} ^ 0 \) is 1
*2. \( \text{(anything)} ^ 1 \) is itself
*3. \( \text{(anything)} ^ \text{NAN} \) is NAN
*4. \( \text{NAN} ^ \text{(anything except 0)} \) is NAN
*5. \( +|x| > 1 \) \( ^ +\text{INF} \) is +INF
*6. \( +|x| > 1 \) \( ^ -\text{INF} \) is +0
*7. \( +|x| < 1 \) \( ^ +\text{INF} \) is +0
*8. \( +|x| < 1 \) \( ^ -\text{INF} \) is +INF
*9. \( +1 ^ +\text{INF} \) is NAN
*10. \( +0 ^ (+\text{anything except 0, NAN}) \) is +0
*11. \( -0 ^ (+\text{anything except 0, \text{NAN}, odd integer}) \) is +0
*12. \( +0 ^ (-\text{anything except 0, NAN}) \) is -INF
*13. \( -0 ^ (-\text{anything except 0, \text{NAN}, odd integer}) \) is -INF
*14. \( -0 ^ (\text{odd integer}) = -(+0 ^ (\text{odd integer})) \)
*15. \( +INF ^ (+\text{anything except 0,\text{NAN}}) \) is +INF
*16. \( +INF ^ (-\text{anything except 0,NAN}) \) is +0
*17. \( -INF ^ (\text{anything}) = -0 ^ (-\text{anything}) \)
*18. \( (-\text{anything}) ^ (\text{integer}) \) is \((-1)^*(\text{integer})*(+\text{anything}^\text{integer})\)
*19. \( (-\text{anything except 0 and inf}) ^ (\text{non-integer}) \) is NAN

\[
\begin{align*}
\text{rem_pio2} \text{return the remainder of } x \mod \pi/2 \text{ in } y[0]+y[1] \\
\text{~~~~}
\end{align*}
\]
This is one of the basic functions which is written with highest accuracy
in mind.

\[
\begin{align*}
\text{sinh} \\
\text{~~~}
\end{align*}
\]
*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)*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 , and y = 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 algebraic manipulation, it is not difficult to see
*that (2) is equivalent to
*       -(i+1)
*s + 2 <= 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 , y = y ;(4)
*  i+1  i  i+1  i
* otherwise,
* \( -i \quad -(i+1) \)
* \( s = s + 2, \quad y = y - s - 2 \) \( (5) \)
* \( i+1 \quad i \quad i+1 \quad i \quad i \)

*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}

  \textit{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

  \[ [0, \pi/4] \]

  \[ \cos(x) \approx 1 - x^2/2 + C1*x + ... + C6*x \]

  where the remez error is

  \[ | \cos(x) - (1 - x^2/2 + C1*x + C2*x + C3*x + C4*x + C5*x + C6*x) | \leq 2 \]

  4. let \( r = C1*x + C2*x + C3*x + C4*x + C5*x + C6*x \), then

  \( \cos(x) = 1 - x^2/2 + r \)

  since \( \cos(x+y) \approx \cos(x) - \sin(x)*y \)

  \( \approx \cos(x) - x*y \),

  a correction term is necessary in \( \cos(x) \) and hence

  \( \cos(x+y) = 1 - (x^2/2 - (r - x*y)) \)

  \( \text{For better accuracy when } x > 0.3, \text{ let } qx = |x|/4 \text{ with} \)

  \( \text{the last 32 bits mask off, and if } x > 0.78125, \text{ let } qx = 0.28125 \).

  \( \text{Then} \)

  \( \cos(x+y) = (1-qx) - ((x^2/2-qx) - (r-x*y)) \).

  \( \text{Note that 1-qx and (x^2/2-qx) is EXACT here, and the} \)

\end{verbatim}
```

\textit{kernel cos function on [-pi/4, pi/4], pi/4 \sim 0.785398164}

*Input x is assumed to be bounded by \sim \pi/4 in magnitude.
*Input y is the tail of x.
*
magnitude of the latter is at least a quarter of $x^2/2$.
thus, reducing the rounding error in the subtraction.

\[
\sin
\]

* kernel $\sin$ function on $[-\pi/4, \pi/4]$, $\pi/4 \sim 0.7854$
* Input $x$ is assumed to be bounded by $-\pi/4$ 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
*   $[0,\pi/4]$
*   $\sin(x) \sim x + S1*x + ... + S6*x$
*   where
*   $|\sin(x)| \leq -58$
*   \[
   |--- (1+S1*x +S2*x +S3*x +S4*x +S5*x +S6*x )| <= 2
   \]
*
*4. $\sin(x+y) = \sin(x) \pm \sin'(x')y$
*   $\sim \sin(x) + (1-x*x/2)*y$
*   For better accuracy, let
*   $r = x *(S2^*x *(S3^*x *(S4^*x *(S5^*x *S6))))$
*   then                   3    2
*   $\sin(x) = x + (S1*x + (x *(r-y/2)+y))$

\[
\tan
\]

* kernel $\tan$ function on $[-\pi/4, \pi/4]$, $\pi/4 \sim 0.7854$
* Input $x$ is assumed to be bounded by $-\pi/4$ 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
*   $[0,0.67434]$
*   $\tan(x) \sim x + T1*x + ... + T13*x$
*   where
*
\[
\begin{array}{c|cccc|c}
\tan(x) & 2 & 4 & 26 & \text{59.2} \\
\hline
\end{array}
\]

\[|\tan(x) + (1+x*x)*y| \leq 2\]

* Note: \(\tan(x+y) = \tan(x) + \tan(y)\)
* Therefore, for better accuracy in computing \(\tan(x+y)\), let
* \[r = x*(T2+x*(T3+x*(...+x*(T12+x*T13)))\]
* then
* \[\tan(x+y) = x + (T1*x + (x*(r+y)+y))\]

* 4. For \(x\) in \([0.67434, \pi/4]\), let \(y = \pi/4 - x\), then
* \[\tan(x) = \tan(\pi/4-y) = (1-\tan(y))/(1+\tan(y))\]
* \[= 1 - 2*(\tan(y) - (\tan(y)^2)/(1+\tan(y)))\]

\[\text{atan}\]

* Method
* 1. Reduce \(x\) to positive by \(\text{atan}(x) = -\text{atan}(-x)\).
* 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:

\[
\begin{align*}
\text{atan}(x) &= t-t^3*(a1+t^2*(a2+...(a10+t^2*a11)...) & \text{[0,7/16]} \\
\text{atan}(x) &= \text{atan}(1/2) + \text{atan}((t-0.5)/(1+t/2)) & \text{[7/16,11/16]} \\
\text{atan}(x) &= \text{atan}(1 ) + \text{atan}((t-1)/(1+t)) & \text{[11/16,19/16]} \\
\text{atan}(x) &= \text{atan}(3/2) + \text{atan}((t-1.5)/(1+1.5t)) & \text{[19/16,39/16]} \\
\text{atan}(x) &= \text{atan}(\infty) + \text{atan}(-1/t) & \text{[39/16,\infty]} \\
\end{align*}
\]

\[\text{erf}\]

* \(x\)
* \[\text{erf}(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} \exp(-t^2)dt\]
* \[\text{erfc}(x) = 1 - \text{erf}(x)\]
* Note that
* \[\text{erf}(-x) = -\text{erf}(x)\]
* \[\text{erfc}(-x) = 2 - \text{erfc}(x)\]
* Method:
* 1. For \(|x|\) in \([0, 0.84375]\)
* \[\text{erf}(x) = x + x*R(x^2)\]
* \[\text{erfc}(x) = 1 - \text{erf}(x)\] if \(x\) in \([-0.84375, 0.25]\)
= 0.5 + ((0.5-x)*R) if x in [0.25,0.84375]
where R = P/Q where P is an odd poly of degree 8 and
Q is an odd poly of degree 10.

* -57.90

\[ R - (erf(x) - x) / x \leq 2 \]

Remark. The formula is derived by noting
\[ erf(x) = (2/\sqrt{\pi}) \times \left( x - \frac{x^3}{3} + \frac{x^5}{10} - \frac{x^7}{42} + \ldots \right) \]
and that
\[ 2/\sqrt{\pi} = 1.128379167095512573896158903121545171688 \]
is close to one. The interval is chosen because the fix
point of erf(x) is near 0.6174 (i.e., 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 erf.

2. For |x| in [0.84375,1.25], let s = |x| - 1, and
c = 0.84506291151 rounded to single (24 bits)
erf(x) = \text{sign}(x) \times (c + P1(s)/Q1(s))
erfc(x) = (1-c) - P1(s)/Q1(s) if x > 0
1+(c+P1(s)/Q1(s)) if x < 0
\[ |P1/Q1 - (erf(|x|)-c)| \leq 2^{-59.06} \]
Remark: here we use the taylor series expansion at x=1.
erf(1+s) = erf(1) + s*Poly(s)
= 0.845.. + P1(s)/Q1(s)
That is, we use rational approximation to approximate
erf(1+s) - (c = (single)0.84506291151)
Note that |P1/Q1|< 0.078 for x in [0.84375,1.25]
where
*P1(s) = degree 6 poly in s
*Q1(s) = degree 6 poly in s

3. For x in [1.25,1/0.35(-2.857143)],
erfc(x) = (1/x)*\text{exp}(-x^2+0.5625+R1/S1)
erf(x) = 1 - erf(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]
erfc(x) = (1/x)*\text{exp}(-x^2+0.5625+R2/S2) if x > 0
\[ = 2.0 - (1/x)*\text{exp}(-x^2+0.5625+R2/S2) \] if -6<x<0
\[ = 2.0 - \text{tiny} \] if x <= -6
erf(x) = \text{sign}(x)*(1.0 - erf(x)) if x < 6, else
\[ \text{erf}(x) = \text{sign}(x)*(1.0 - \text{tiny}) \]
where
*R2(z) = degree 6 poly in z, (z=1/x^2)
*S2(z) = degree 7 poly in z
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-0.5626+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 [0,0.347]:
* Since
* r*(exp(r)+1)/(exp(r)-1) = 2+ r^2/6 - r^4/360 + ...
* we define R1(r*r) by
* r*(exp(r)+1)/(exp(r)-1) = 2+ r^2/6 * R1(r*r)
* That is,
* R1(r*r**2) = 6/r *((exp(r)+1)/(exp(r)-1) - 2/r)
* = 6/r * ( 1 + 2.0*(1/(exp(r)-1) - 1/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*r 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 = -1.6666666666666567384E-2,*
* Q2 = 3.968259681370365873E-4,*
* Q3 = -9.9206344733435987357E-6,*
* Q4 = 2.5051361420808517002E-7,*
* Q5 = -6.2843505682382617102E-9;*
*(where z=r*r, and the values of Q1 to Q5 are listed below)*

*with error bounded by*

* expm1(r) = exp(r)-1 is then computed by the following*

* specific way which minimize the accumulation rounding error:*

* expm1(r+c) = expm1(r) + c + expm1(r)*c
* expm1(r) ~ r + --- + --- * [------------------------]

*To compensate the error in the argument reduction, we use*

* expm1(r+c) = expm1(r) + c + expm1(r)*c
* expm1(r) = 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^k, 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)*
* (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))
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).
  *
  * Note. If k=0, then f=x is exact. However, if k!=0, then f
  * may not be representable exactly. In that case, a correction
  * term is needed. Let u=1+x rounded. Let c = (1+x)-u, then
  * log(1+x) - log(u) ~ c/u. Thus, we proceed to compute log(u),
  * and add back the correction term c/u.
  *(Note: when x > 2**53, one can simply return log(x))

  * 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)
    *
    * 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
    * log1p(f) = f - (hfsq - s*(hfsq+R)).
    *
  * 3. Finally, log1p(x) = k*ln2 + log1p(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
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1.145 libc6-dev 2.23 :0ubuntu10

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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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1.146 libc6:amd64 2.23 :0ubuntu10

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Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid
Author: Adam Conrad <adconrad@ubuntu.com>

```c
--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
#endif
#endif
+/* 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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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
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
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506*([Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
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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);
public abstract int hashCode();

public final String getName() {
    return name;
}

public abstract String getActions();

public PermissionCollection newPermissionCollection() {
    return null;
}

/*
 * 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
 */

/*
 * Get the name of this <code>Permission</code>.
 *
 * @return the 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>
 */

/*
 * 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>
 */

/*
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 */
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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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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java/security/Permission
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Serialization
serialVersionUID

_CONSTANT_VALUE?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()V	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()IgetName()Ljava/lang/
String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilde
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SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Ljava/lang/Object;>!Ljava/lang/Object;>!Ljava/lang/Object;>!Ljava/lang/Object;>!Ljava/lang/Object;>!Ljava/lang/Object;>
Permission@1@@@

eAYYYYSYSYS
G'E
1*+E !'
6YK*YM<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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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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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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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 Multimac 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 Detlef(s@detlefsrc.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) supplied 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
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@c center Version 3, 29 June 2007
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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:
Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)

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

Begin verbatim text
.ft CW
.nf
.ne \S1
... 
End verbatim text
.ft R
.fi

Set up some character translations and predefined strings. \-- will
\{PI will give pi, \L" will give a left
double quote, and \R" will give a right double quote. \C+ will
\{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'+s0v'.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" "
 . ds C" "
 . ds C' "
}'br%
.eb%
 . ds -- \(em\]
 . ds PI \(*p
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).

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fudge factors for nroff and troff

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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)))

#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\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\", (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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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',
    'ltoptions.m4',
    'ltsub.sh',
    '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 ('	')

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):
        self.errors = errors

        # Characters in a range of years. Include ' ' for typos.
ranges = '[0-9]([-0-9.,\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 (
    # 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).
    '( + 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:
            if changed:
                break
            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',

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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
    ' % sys.argv[0])
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:
')
    format = '%-25s
    ' % sys.argv[0])
    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(['math-68881.h',])
        self.skip_dirs |= set(['ada',
                                'testsuite',])

    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)
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.
        ])

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

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();
        }
        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
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);
        }
    }
}
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.
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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;
%/&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lan
g/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
N6P
RTSjava/lang/String01
:V95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**a[]^
XM,.*$nop
q *=+-
*/012345/*6578,95S:Y</*L+(=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
thisvalues4I[L.gnu/javasound/AudioSecurityManager$Permission;
$&%java/lang/System'( 
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javasound/AudioSecurit
yManager$Permission;
.,-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javasound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/javasound/Au-
ndo/AudioSecurityManager
Permission@1@@@

eAYYYYSYSYS
G'E
1*+E."
6YK+<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;

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$;
};

#ifdef __gnu_javax_sound_AudioSecurityManager$Permission__
Jan 21, 2002

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Version 2.1, February 1999

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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@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@grucho.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

@ignore
@gfdl(7), fsf-funding(7).
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\" Escape single quotes in literal strings from groff's Unicode transform.
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\" 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.
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\" 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_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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Open Source Used In Ultra Services Platform Version 6.7
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.

1.151 libcilkrts5 5.4.0 :6ubuntu1~16.04.11
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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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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) {
            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() + "</dt>);
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/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;
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=?>java/lang/String@Alength(IIC)java/lang/StringBuffer
BF<dl>
BHIappend.(Ljava/lang/String;Ljava/lang/StringBuffer;Ljava/lang/StringBuilder)N<dt><i>Copyright ©

/* 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
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 representing this permission.
     *
     * @return A String representing this permission.
     */
    String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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#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 (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:
\"=================================================================================
.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
```
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枢纽-1\v枢纽-1p枢纽-2+\v枢纽-1p枢纽-3\v枢纽-1p枢纽-1p枢纽-1p枢纽
.ie n \{
    .ds -- \(*W-
    .ds PI pi
    .if (\n(\n(H=4u)&(1m=24u) .ds -- \(*W\v枢纽-12u枢纽(*W\v枢纽-8u枢纽-\v枢纽) diablo 10 pitch
    .if (\n(\n(H=4u)&(1m=20u) .ds -- \(*W\v枢纽-12u枢纽(*W\v枢纽-8u枢纽-\v枢纽) 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 ‘
    .\"

\" 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%\t\n$2"
..% 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.

V fudge factors for nroff and troff
.if n {}
  .ds #H 0
  .ds #V .8m
  .ds #F .3m
  .ds #[ \
  .ds ][ M
  .ds ][ MP

V
.if t {}
  .ds #H ((1u-(\\n(.fu%2u))*.13m)
  .ds #V .6m
  .ds #F 0
  .ds #[ &
  .ds ][ &
  .ds ~ ~
  .ds /

V
.if t {}
  .ds ' \\
  .ds ` \\
  .ds ^ \\
  .ds , \\
  .ds ~ ~
  .ds /

V troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n(.wu*8/10-\n*(#H)\h')\n:u'
.ds : \k:\h'-(\n(.wu*8/10-\n*(#H)\h')\n:u'
.ds : \k:\h'-(\n(.wu*10/11-\n*(#H)\h')\n:u'
.ds ., \k:\h'-(\n(.wu*8/10)'\h')\n:u'
.ds ~ \k:\h'-(\n(.wu*8/10)'\h')\n:u'
.ds / \k:\h'-(\n(.wu*8/10-\n*(#H)\z(s)\h')\n:u'

V corrections for vroff
.ds : \k:\h'-(\n(.wu*8/10-\n*(#H+1m+\n*(#F)\h')\n:u'
.ds : \k:\h'-(\n(.wu*8/10-\n*(#H)\h')\n:u'
.ds : \k:\h'-(\n(.wu*8/10-\n*(#H)\h')\n:u'
.ds ., \k:\h'-(\n(.wu*8/10)'\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 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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*/

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 + '\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',
'deepcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt~obsolete.m4',
'missing',
'ltdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symblink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendl_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]\$+\$+[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_u gn .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 = []
        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 ('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

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,')
        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.')
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 (os.path.join ('libstdc++-v3', LibStdCxxFilter()))
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = ['gcc', 'libada', 'libatomic']
GCCCmdLine().main()

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`java/security/Permission.java/lang/Object/java/security/Guard/java/io/Serializable
serialVersionUIDJ

ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)V

CodeGen()

LineNumberTable
LocalVariableTable
thisLjava/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;)
Zequals(Ljava/lang/Object;Z

hashCode()I

getName()Ljava/lang/String;

getActionsLnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder

:return:

?:@append"(C)Lgnu/java/lang/CPStringBuilder;

BCDgetClass()Ljava/lang/Class;

FHGjava/lang/Class45

:J?K3(Ljava/lang/String:)Lgnu/java/lang/CPStringBuilder;

SourceFilePermission.java!

F

**+[]^*

XM,,*$nop

q *"A012345/*6578.95S:Y<\+(=L+*AEIL+ =L4+*LIL.*MOQ+ =L4+*M4L+)=L4+U*

"*7>GNSKWXYZ

16/gnu/javasound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javasound/AudioSecurityManager

Permission;RECORDALLENUM$VALUES2[Lgnu/javasound/AudioSecurityManager$Permission;<cinit>

>()

Code

<init>(Ljava/lang/String;I)

LineNumberTable
LocalVariableTable

thisvalues4()Lgnu/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<Lgnu/javasound/AudioSecurityManager$Permission;>:InnerClasses4Sgnu/javasound/AudioSecurityManager
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1.152 libcomerr2 1.42.13 :1ubuntu1

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Theodore Ts'o
23-June-2007

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That's all there is to it!
ext2ed - The extended-2 filesystem editor, version e2fsprogs

This version of ext2ed has been modified and updated by Theodore Ts'o 
for inclusion with the e2fsprogs package. It now builds with modern 
curses and I've fixed various small bugs, particular in the redrawing 
and resizing functions.

It is currently not built by default -- the top-level e2fsprogs 
Makefile doesn't recurse into this directory. This is because ext2ed 
has a number of VERY SERIOUS shortcomings:

1) It doesn't work on filesystems bigger than 2GB

2) It assumes that all's the world an Intel, and assumes that 
everything is in Intel (little-endian) byte order.

Fixing either of these problems would be non-trivial, and so I at this 
point DO NOT RECOMMEND that distributions try to include this program, 
even as modified and updated in e2fsprogs. This especially goes for 
Debian, where the Debian maintainer for e2fsprogs has a history of 
making authorized changes to e2fsprogs to include programs that aren't 
supported, and then starts bugging me with bug reports. YES I KNOW. 
THIS PROGRAM HAS HORRIBLE SHORTCOMINGS. IT IS INCLUDED HERE ONLY 
BECAUSE IT'S A CONVENIENT WAY FOR (FOR E2FSPROGS DEVELOPERS ON INTEL 
MACHINES) TO GENERATE TEST CASES BY SELECTIVELY CORRUPTING
I have currently disabled the use of GNU Readline in this program, because readline and ncurses really don't play well together at all. Readline assumes that it can write arbitrary text to the screen (especially when it tries to print out a completion list), which just doesn't work with ncurses. Fixing this so they would work together would require wholesale changes to readline.

Theodore Ts'o
tytso@MIT.EDU
May 12, 2001

ext2ed - The extended-2 filesystem editor, version 0.2

This is version 0.2 of ext2ed - The extended-2 filesystem editor.

Modifications on Apr 5 2001
This is minor bug fixes to ext2ed, as of April 2001.
It supports modern ext2 version that has file type in directory structure
and fixes the misunderstanding between ncurses and
readline.

I first applied patches from Redhat except the one for readline that
rewrote a readline behavior.

Globals diffs between version 0.1 and 0.2 is stored in file :
diff-ext2ed.1.2

Christian Bac <Christian.Bac@nt-evry.fr>

Documentation

ext2ed's documentation consists of three documents:

1. The user's guide.
2. Technical overview of the ext2 filesystem.
3. The EXT2ED design and implementation document.

Those documents are available in the doc directory, in linuxdoc-sgml and
postscript formats.
The documentation is also available online at:

http://tochnapc2.technion.ac.il

under the ext2ed section.

Installation
-----------

ext2ed requires the kernel sources and the readline and ncurses packages. Please edit the makefile if you are using an "old" version of ncurses (See the details below) or if gcc can't find the various header files and libraries.

To install, simply issue a 'make' command to compile and a 'make install' command to install. I have also included an already compiled linux a.out binary.

ext2ed and ncurses
------------------

ext2ed uses the ncurses library for terminal output. It is very important that ncurses will be properly installed on your system:

1. Old versions of ncurses (around 1.8.5) need the OLD_NCURSES compile time option in EXT2ED.

At least from 1.9.2c, this flag should not be used. I would recommend upgrading the ncurses library to the newer versions.

2. ncurses uses its own terminfo database rather then the termcap file. It is important that the terminfo database will be found by ncurses. If this is not the case, you will see on startup some lines which refer to /etc/termcap. This will mean that there is a problem with the terminfo database.

3. Newer versions of ncurses (and the 1.3 series of the kernel) describe the linux console in the entry 'linux' and not 'console', as it was before. If you run ext2ed in the linux console, you should either set your TERM environment variable to 'linux' or link /linux to /c/console in the terminfo database.

4. The percompiled binary was linked with ncurses 1.9.4 and will search for the terminfo database on /usr/local/lib/terminfo. If you are using it, and your 1.9.4 compatible terminfo database is not on the directory above, use the TERMINFO environment variable to specify an alternate location.
Running ext2ed
-------------

For those of you who don't like reading lengthy articles, here are a few basic guidelines:

1. Don't use ext2ed to change a mounted filesystem!

Using ext2ed in read-only mode on a mounted filesystem can be allowed by using the configuration file option 'AllowMountedRead on'. However, note that the displayed data will be unreliable.

2. ext2ed currently can't handle filesystems bigger than 2 GB. I am sorry for the inconvenience. This will hopefully be fixed in future releases.

3. Before running ext2ed, edit the configuration file /var/lib/ext2ed/ext2ed.conf to suit your needs. The various configuration options are documented there.

4. Use the 'setdevice' command to open an ext2 filesystem. e.g. 'setdevice /dev/hda1'.

5. If the filesystem is an ext2 filesystem and ext2ed fails to autodetect this, use the 'ForceExt2 on' configuration file option.

6. The filesystem will always be opened in read-only mode. Feel free to experiment, but take care with the 'enablewrite' command.

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

Feel free to send me feedback with anything regarding to ext2ed.

Enjoy,

Gadi Oxman <tgud@tochnapc2.technion.ac.il>
Haifa, August 23 1995

In order to sanitize e2fsprogs to be DFSG free, the file draft-leach-uuids-guids-01.txt has been removed. It can be obtained by downloading e2fsprogs from the upstream sources. It may also be available from other sites on the network, if you do a quick web search for the string "draft-leach-uuids-guids-01".

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

1.153 libcommons-cli-java 1.3.1-3ubuntu1

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1.156 libcrack2:amd64 2.9.2 :1ubuntu1

1.156.1 Available under license :

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: *
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Comment:
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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 under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> > Seems like the ideal thing here would be for you and the other distro
> >> > maintainers to get together with Alec in a conversation and come to a
> >> > decision as to what licensing scheme y'all want. I haven't really done
> >> > much other than cleaning up the packaging and patches and a small
> >> > bit of
> >> > additional code, so whatever licensing y'all come up with is fine
> >> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

-------------------------------
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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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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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<one line to give the library'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.

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>
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.

-- Nathan

---

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

-----Original Message-----
From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
On Behalf Of
Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing
libraries under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=}
eir=20
applications are also GPL-2 which imo is just wrong. it 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.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
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> > 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
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> >
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-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 you 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
On Monday 28 January 2008, Nalin Dahyabhai wrote:

> > > 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
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> > > > additional code, so whatever licensing y’all come up with is fine
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> > >
> > > I am sympathetic. Guys, what do you reckon?
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> > > linked with any code, not just GPL....
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> > My apologies for not chiming in in anything resembling a reasonable
> 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

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 1IocX-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: <11b1b3fd80710010908k11dac0afpf1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <11b1b3fd80710010908k11dac0afpf1f2dd471059ff9a4@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)

-------- attachment is text/plain --------

From: alecm@crypticide.com Mon Oct  1 12:26:03 2007
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    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
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In-Reply-To: <11b1b3fd80710010908k11dac0afpf1f2dd471059ff9a4@mail.gmail.com>
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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)
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-a

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1.157 libcryptsetup4:amd64 2:1.6.6:5ubuntu2.1

1.157.1 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
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 keyscripth=\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,keyscripth=/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 (swsuspsusp, suspend2 or uswsuspsuspend) 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" keyscript as described below.

9. The "decrypt_derived" keyscript
----------------------------------
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 keyscript 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 keyscripts solve for you.

Usage
-----
Best shown by example:
- 5 disks
- Linux software raid5

Layer:

```
sda             sdb            sdc ... sde
+-----------+   +-----------+
| LUKS      |   | LUKS      |
| +-------+ |   | +-------+ |
| | RAID5 | |   | | RAID5 | |
| | ...   | |   | | ...   | |

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 keyscript (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 crypttab 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 keyscript you may want to cleanup the keyring completely with the following command afterwards:
  sudo keyctl clear @u

opencet with cryptsetup and luks in Debian
------------------------------------------

This is a overview on how you can make use of cryptsetup with your smartcard device supported by opencet. Please make sure that your smartcard reader or token is supposed to be operated with opencet and not with opensc or pcscl. 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 identity 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, opencct version 0.6.12 is available and does not support labelling different data objects. Once this gets fixed in opencct 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 opencct 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_opencct
```

At the moment all data objects have the same label 'pkcs15-init'. Once opencct supports labelling data objects, you can pass the respective label to opencct 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 openct 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 openct, so it is better to be on the save side):

    # 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:

    # 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 openct 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:

    # 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:

```bash
# 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).

```bash
# 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:

```plaintext
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`, `rsre_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 `pcsed`. Newer versions of `pcsed` 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 `pcsed` (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 pcscd and its libraries in /usr/local/. To reflect the new situation we have to change the initramfs scripts. Edit /etc/reader.conf to instruct pcscd 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 pcscd daemon, drivers, conf file, and include libgcc as well since
# pcscd utilizes pthread_cancel
copy_exec /usr/local/sbin/pcscd
cp -r /usr/local/pcsc ${DESTDIR}/usr/local
cp /etc/reader.conf ${DESTDIR}/etc

# 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:

```
# dropbearkey -y -f /etc/initramfs-tools/root/.ssh/id_rsa.dropbear | \ 
grep "^ssh-rsa " > /etc/initramfs-tools/root/.ssh/id_rsa.pub
```

To add the public key to the authorized_keys file:

```
# 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@initramfshost.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
"initramfshost.example.com", and that the cryptroot passphrase is "secret"

-- <debian@x.ray.net>, Wed, 30 Sep 2009
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Contact: Milan Broz <mbroz@redhat.com>
Source: http://code.google.com/p/cryptsetup

Files: *
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Files: debian/*
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Files: debian/askpass.c debian/passdev.c
Copyright: 2008 David Hrdeman <david@hardeman.nu>
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Files: debian/README.openct
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Files: debian/README.opensc
Copyright: 2008 Benjamin Kiessling <benjaminkiessling@bttec.org>
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Files: debian/README.remote
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Files: debian/scripts/cryptdisks_start
Copyright: 2007 Jon Dowland <jon@alcopop.org>
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Files: debian/scripts/luksformat
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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
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usr/bin/lpr
usr/bin/lprm
usr/share/man/man1/lpr.1.gz
usr/share/man/man1/lprm.1.gz
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// SECTION: Getting Started //
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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

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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

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

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

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

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

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

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charge to all third parties under the terms of this License.

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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
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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

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

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```

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<OL START="11">

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<OL TYPE="a">

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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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.

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* 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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 *
**************************************************************************/

/**
 * @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;
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 instered 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.
 */
#define util_hash_find
 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);

drm_private struct util_hash_iter
 util_hash_iter_next(struct util_hash_iter iter);
#endif

1.167 libdrm2:amd64 2.4.91 :2~16.04.1

1.168 libdumbnet1:amd64 1.12 :7
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# 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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This is the Debian package of expat, the C library for parsing XML.

The source package was downloaded from <URL:http://expat.sourceforge.net>.

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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1.174 libfakeroot 1.20.2 :1ubuntu1

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Version 3, 29 June 2007

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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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73fbe 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

Open Source Used In Ultra Services Platform Version 6.7
6743
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
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):

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You can also contact us individually at:

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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.

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
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 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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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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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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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.

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a) Accompany the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate 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
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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
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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
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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',
'ltoptions.m4',
'ltsoptions.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 (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+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'
    '[[Cc]opyrights+([Cc])]'  # [[Cc]opyrights+([Cc])]
    '[[Cc]opyrights+%s'  # [[Cc]opyrights+%copy;'  # [[Cc]opyrights+@copyright{ ]'
    '[copyright = u"'  # [copyright = u"'
    '@set%s+copyright[\w-]+)'  # [@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
                    break
            line = line.rstrip() + '
'
            return (line != orig_line, line, next_line)
# 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',

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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])
    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:
                for dir, filter in self.dirs:
                    if dir == chosen_dir:
                        self.o_help ()
                        self.copyright.include_year (time.localtime().tm_year)
                        break
    else:
        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 ([

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.
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')
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 ('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 ('libobjc')
        self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')

# 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 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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@ifetx
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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.

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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#ifndef __java_security_Permission__
#define __java_security_Permission__

#endif
```cpp
#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;
}

#pragma 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"
{

#endif // __java_security_acl_Permission__

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#endif // __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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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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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.
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".
 *
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 <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>` 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!

#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) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@m.tiame.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(agle@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 Hutturnen (Ari.Hutturnen@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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@end group
@end smallexample

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@smallexample
@group
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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
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' expand to ` in nroff, nothing in troff, for use with C<>.

\tr \(*W-
\ds C+ C\v'-.1\v'h'-1p'\u-2+\v'h'-1p'+\s0\v'.1\v'h'-1p'
\ie \n\{
 . ds -- \(*W-
 . ds PI pi
 . if \(u(.H=4u)&(1m=24u) .ds -- \(*W\v'h'-12u\v\h'=12u'\v'-\v' \diablo 10 pitch
 . if \(u(.H=4u)&(1m=20u) .ds -- \(*W\v'h'-12u\v\h'=8u'\v'-\v' \diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C' "
\}br\}
\el \{
 . 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" 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:\n$1\v\n%X\"\n$2"
 . nr % 0
 . rr F
\}
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 #[ V1
  \ds #] \&
\fi

\if t \%
  \ds #H ((1u-\\n(u%2u)*.13m)
  \ds #V .6m
  \ds #F 0
  \ds #[ \&
  \ds #] \&
\fi

simple accents for nroff and troff

\if n \%
  \ds ` \&
  \ds ` \&
  \ds ^ \&
  \ds , \&
  \ds ~ ~
  \ds / \&
\fi

\if t \%
  \ds ` \&
  \ds ` \&
  \ds ^ \&
  \ds , \&
  \ds ~ ~
  \ds / \&
\fi

troff and (daisy-wheel) nroff accents

\ds : \&
  \ds o \&
  \ds d- \&
  \ds th \tau
  \ds th
  \ds ae a\&
  \ds Ae A\&
" corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-*(#H)\s-2\u-\d\s+2\h|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-*(#H)\v'-.4m'^\v'.4m'\h'|\n:u'
. " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1\(ga
. ds D- D\h'-1\(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
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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 	.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, 	.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"
", (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

/* 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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1998-05-11
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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',
        'rdr.texi',
        'gpl_v3.texi',
        'rdr-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-optm4',
        'lt-sugar.m4',
        'ltversion.m4',
        'lt--obsolete.m4',
        'missing',
        'mkdep',
        'mknstalldirs',
        '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',
    ])

    self.skip_dirs |= set([
        # Skip directories.
        'build',
        'config',
        'doc',
        'docbook',
        'docbook-src',
        'doc-texinfo',
        'doc-data',
        'doc-man',
        'expat',
        'expat-base',
        'expat-late',
        'expat-validation',
        'expat-wx',
        'fopchain',
        'fopchain-base',
        ...
    ])

    self.skip_extensions |= set([
        # Skip extensions.
        ' getListOfLibraries',
        'getListOfLibraries',
        'getListOfLibs',
        'getListOfLibs',
        'getLib',
        'getLib',
        'getLibs',
        'getLibs',
        'getLibs',
        'getLibs',
        'getLibs',
        'getLibs',
    ])

    self.fossilised_files |= set([
        # Fossilized files.
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
        'fossilisedFiles',
    ])

    self.own_files |= set([
        # Own files.
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
        'ownFiles',
    ])
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]+[0-9]*[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+]\[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*\(\?\s*+\?\)\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
        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)
# 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

    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',

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

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

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

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

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

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

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

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

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

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
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
@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.

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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.

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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.

@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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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.
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@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.

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@var{one line to give the library's name and an idea of what it does.}
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@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:

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

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

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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.

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If
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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
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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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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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#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.java.util.Map;

import com.sun.java.util.doclets.Taglet;

import com.sun.java.util.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 ® " + tags[i].text() + "</i></dt>\n" + tags[i].text() + "</dt>\n");
                }
            }
/* 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.
 *<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 = -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
 */
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>`
 */

class 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>`
 */

class 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();
}
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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
   */
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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1 java/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()IlgetName()Ljava/lan
g/String;
geActionsnewPermissionCollection&()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;
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$;
};

#ifdef __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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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.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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 (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.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 code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@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
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@end display

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  being @var{list}.
@end group
@end smallexample

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
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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
.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 %S1
..
.de Ve " End 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<<.

```
.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}
.ie \{|\
  . ds -- '{em|
  . ds PI '{p
  . ds L" "
  . ds R" "
.br}
}\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 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\v\n%1\v\n%1\v\n%1\v\n%1\v\n\n...  nr % 0
  . rr F
 ksi
.el }\
  . de IX
...}
\n"
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 #I \&
   .ds #J \&

' " simple accents for nroff and troff
.if n \|
   .ds `' \&
   .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)\h"\n:u'
.ds , \k:\h'-(\n.wu*8/10)'\h"\n:u'
.ds ~ \k:\h'-(\n.wu-\*(#H-1)m)'\h"\n:u'
.ds / \k:\h'-(\n.wu*8/10-\*(#H)'s\h"\n:u'

' " corrections for vroff
.if v .ds ~ \k:\h'-(\n.wu*9/10-\*(#H)'s-2u-\d's+2\h"\n:u'
.if v .ds ^ \k:\h'-(\n.wu*10/11-\*(#H)'v-.4m'\v-.4m'\h"\n:u'

' " for low resolution devices (crt and lpr)
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/* Definitions for BSD assembler syntax for Intel 386 
   (actually AT&T syntax for insns and operands, 
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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 3.1, 31 March 2009

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1998-05-11

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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.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(agnostic@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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/* 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 ("\t.comm ", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      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\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
@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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license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
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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.
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 \texttt{Lesser} General Public License because it does \texttt{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.

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.

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.

@item
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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.

@item
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
@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.

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.

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.

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

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

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

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You may place library facilities that are a work based on the 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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@end enumerate

@iftex
@end iftex
@ifinfo
@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.

@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.
@end smallexample
This library 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. See the GNU
Lesser General Public License for more details.

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.

@var{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) 2013-2016 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',

    # 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('	')
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]{1,}(?:\[-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]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(self.separator)
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(self.separator, 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() + '\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)
                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)

            lines.append(line)
            changed = True

    return (lines, changed,
            os.path.join(dir, filename),
            self.copyright_re.search(line),
            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',

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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 ('inDirectories
    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.
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('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('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('libvtv')

self.add_dir('lto-plugin')

# zlib is imported from upstream.

default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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```java
ConstantValue?(<WQ-=nameL.java/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisL.java/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%"&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjL.java/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
:F95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**@[]^**

XM,,*$nop
q *
_.-A012345/*6578,95S:Y<$L+(=L+*AEIL+=L+*LIL=*MOQ+=L+*MIL+=L+*U*
"*7>GNSKWXYZ
ljava/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
16/gnu/java/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/java/sound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[L.gnu/java/sound/AudioSecurityManager$Permission;<cinit
>')VCode
<init>(Ljava/lang/String;)IV
LineNumberTableLocalVariableTable
thisvalues4)[L.gnu/java/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(
arraycopy*(L.java/lang/Object;IL.java/lang/Object;II)VvalueOfE(L.java/lang/String;)L.gnu/java/sound/AudioSecurit
yManager$Permission;
).-5t(L.java/lang/Class;L.java/lang/String;)L.java/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCl.java/lang/Enum<Lgnu/java/sound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/java/sound/AudioSecurityManager
Permission@1@@@@
```
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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 &copy; " + tags[i].text() + "; " + tags[i].text() + "</i></dt>");
    }
}
result.append("</dl>");
return result.toString();
}
else {
    return null;
}
}
or based on this library. If you modify this library, you may extend
this exception to your version of the library, but you are not
obligated to do so. If you do not wish to do so, delete this
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.
 * *
 * <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>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;
}
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 (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, representing this permission.
 *
 * @return A String representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostname_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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#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 __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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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. \^L

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,
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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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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
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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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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpi-mul2.S,
mpi/hppa1.1/mpi-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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

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1.185 libgirepository-1.0-1:amd64 1.46.0 :3ubuntu1

1.185.1 Available under 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.)

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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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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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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!

GOBJECT INTROSPECTION

The goal of the project is to describe the APIs and collect them in a uniform, machine readable format.

GIR XML FORMAT

There's an XML format called GIR used by GOBJECT INTROSPECTION. 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

1.186 libglib2.0-0:amd64 2.48.2 :0ubuntu4.1
1.186.1 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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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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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.
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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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##
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lib/inet_pton.c

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Comment: This code is not used on Debian/*, since we have a working
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@end example

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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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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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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
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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.

5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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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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
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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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######################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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########################################################################
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## version 0.1
## By Mike Hamburg (Stanford University), 2009
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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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-----------------------------------------------------------------
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
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##

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Fri, 3 Aug 2001 10:00:42 +0200.
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It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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

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

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

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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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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.)
@end enumerate

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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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@end enumerate

@if\text\TeX\fi
@heading END OF TERMS AND CONDITIONS
@end if\text\TeX\fi
@if\text\LaTeX\fi
@center END OF TERMS AND CONDITIONS
@end if\text\LaTeX\fi

@page
@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

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

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

@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}

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

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@end smallexample
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:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{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:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@end example

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

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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"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.

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@cindex LGPL, Lesser General Public License
@center 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.]
@end display

@appendixsubsec Preamble

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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
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To protect each distributor, we want to make it very clear that
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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
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Most GNU software, including some libraries, is covered by the
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is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

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

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

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

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

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
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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
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A program that contains no derivative of any portion of the
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linked with it, is called a “work that uses the Library”. Such a
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However, linking a “work that uses the Library” with the Library
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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

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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and the section as a whole is intended to apply in other circumstances.

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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
variable{one line to give the library's name and an idea of what it does.}
Copyright (C) variable{year} variable{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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@end example

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.

variable{signature of Ty Coon}, 1 April 1990
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:

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<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></td>
<td></td>
</tr>
<tr>
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<td></td>
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For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

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<td>C++</td>
<td>libstdc++6-4.4-dbgs</td>
<td>libstdc++6-4.4-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbg</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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gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
gcc/tsystem.h, gcc/typeclass.h).
- libdecimal
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- 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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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

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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: ARchive for the Java run-time

C, C++, and Fortran 95:
libgomp1-dev, libgomp1: GCC OpenMP (GOMP) support library

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- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-@BV@ Ada support library and libgnatvsn library.
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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 "." 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 (".comm ", (FILE)),
 assembly_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)),
 assembly_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)),
 assembly_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 $2^{\text{LOG}}$ 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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* m4/ax_func_which_gethostbyname_r.m4

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" ===============================================================
.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)
"Set up some character translations and predefined strings. \*-- will
\* will give an unbreakable dash, \*PI will give pi, \*L" will give a left
\*R" will give a right double quote. \*C+ will
\* 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\v'1p\-2+\v'1p\+\v'1p\-1p'
\ie n \{
. 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
. ds L" "
ds R" "
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 \{
. de IX
. tm Index:\$1\t\n%*\"\$2"
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisInlineTagregister(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;
BF<dt>
BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©
KPQ(Ljava/lang/String;)V
KSIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V	</i></dt>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/* -
&.*026: .>.B"#QY$L*+%+WFGH-.
/01A
+2Y+S4K

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>";
                }
            }
        }
    }
}

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>&lt;i&gt;Copyright &lt;#169;&gt;" + tags[i].text() + "</dt>";
        }
    }
}
/* 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.
 *<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.

@<param name="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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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();
}

// 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 java::security::acl::Permission : public java::lang::Object
{
public:
  virtual jobject equals(jobject *) = 0;
  virtual jobject string * toString() = 0;
  static jobject::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
{
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$VALUES;
public:
static ::java::lang::Class class$;
};

#ifndef __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
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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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 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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@heading TERMS AND CONDITIONS

@enumerate 0
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@c man end
#!/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',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.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]+\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w+\-\n'

        # 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+\-\n')

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
        # 1: 'Copyright (C)', etc.
        '((C)c)opyright'  
        '([Cc]opyright\s+(C)c)'  
        '([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)

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

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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:
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
'
        sys.stdout.write (format % ('Options:\n' % sys.argv[0]))
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:\n')

        format = '%-25s'
        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 getattr(GenericFilter, 'get_line_filter', lambda self, dir, filename: None)(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',
        ])
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 ('Free 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,')
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    self.add_external_author ('The Go Authors.')
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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('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('libsan')
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', 'libfortran', 'libgomp', 'libibtm', 'libmudflap', 'libobjc', 'libstdc++-v3', ]

GCCCmdLine().main()
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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
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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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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 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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#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;
        }
        return HEADER + ";

        // Additional implementation for toString method
    }

    // Additional methods and logic for CopyrightTaglet class
}
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/TagletNAMEjava/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
g 506*{Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?+java/lang/String@ALength()ICjava/lang/StringBuffer
BF<dt>
BHIJappend,(Ljava/lang/String;Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright © #169;
KPQ(Ljava/lang/String;)V
KSTI-(Ljava/lang/String;Ljava/lang/StringBuilder;V</i></dt>
KX0Z</dt>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/*1-
7.;,:C.G,K,O!,S"QYS*L+%+WWXY-.
/0
*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.
 * @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.
     */
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 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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1 java/security/Permissionjava/lang/Objectjava/security/Permissionjava/io/SerializableserialVersionUID

ConstantValue(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)V

Code()

VLineNumbersLocalVariablesThisLjava/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

gnu/java/lang/StringBuilder;

toString();

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/Permissionjava/lang/Objectequals(Ljava/lang/Object;)Ljava/lang/String;

SourceFilePermission.java

16/gnu/java/security/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/java/security/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/java/security/AudioSecurityManager$Permission;<clinit>()V

<init>(Ljava/lang/String;)V

LineNumberTableLocalVariableTable

tthisvalues40[Lgnu/java/security/AudioSecurityManager$Permission;

$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V

valueOfE(Ljava/lang/String;)Lgnu/java/security/AudioSecurityManager$Permission;

,-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;

SourceFileAudioSecurityManager.java

SignatureCLjava/lang/Enum<gLgnu/java/security/AudioSecurityManager$Permission;>:InnerClasses4$gnu/java/security/AudioSecurityManager

Permission@1@@@@

eAYYYYYSYSYS

G'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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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the
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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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"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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   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

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   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
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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 combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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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.

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,
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

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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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b) Give prominent notice with the combined library of the fact
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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 Cradlig (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 Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
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@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.
@c man end
@c man begin DESCRIPTION
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Everyone is permitted to copy and distribute verbatim copies of this
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c@c man end
c@end ignore
c@node Copying
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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gfdl(7), fsf-funding(7).
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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 0
@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 License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

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conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

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

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@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. \(\backslash(-\) will give an unbreakable dash, \(\backslash(PI\) will give pi, \(\backslash(L\) will give a left double quote, and \(\backslash(R\) will give a right double quote. \(\backslash(C+\) will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won’t be available. \(\backslash(C-\) and \(\backslash(C’\) expand to ‘‘ in nroff, nothing in troff, for use with C<<.

\(\text{.tr} \backslash(*W-\)
\(\text{.ds} C+ C\backslash(-1.1v'1h'-1p's-2+h'-1p'+s0v'.1v'1h'-1p'\)
\(\text{.ie} \n(\{\)
  \(\text{.ds} -- \backslash(*W-\)
  \(\text{.ds} PI\) pi
  \(\text{.if} \ (\n(\{H=4u)&(1m=24u) \text{.ds} -- \backslash(*W'1h'-12u'(\backslash(*W'h'-12u'-\backslash(C-\))\ diablo 10 pitch
  \(\text{.if} \ (\n(\{H=4u)&(1m=20u) \text{.ds} -- \backslash(*W'1h'-12u'(\backslash(*W'h'-8u'-\backslash(C-\))\ diablo 12 pitch
  \(\text{.ds} L''''\)
  \(\text{.ds} R''''\)
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  \(\text{.ds} C'''\)
\(\text{'br'}\)
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\(\text{.ds} -- \backslash(|em|)\)
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"titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
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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 #] \&
.if t \|
  .ds #H ((1 - \%\%\%2u))* .13m
  .ds #V .6m
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.TH GPL 7 "2016-06-03" "gcc-5.4.0" "GNU"
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\" way too many mistakes in technical documents.
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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)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \    ( 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\n", (int)(ROUNDED)))
#endif

/* 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\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\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)\nif ((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)\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

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Version 3.1, 31 March 2009

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

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1.193 libgssapi-krb5-2:amd64 1.13.2+dfsg
:5ubuntu2

1.193.1 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
===============================================
--- krb5/src/appl/telnet/telnet/sys_bsd.c
+++ krb5/src/appl/telnet/telnet/sys_bsd.c(local)
@@ -43,6 +43,8 @@
#include <sys/types.h>
#include <sys/time.h>
#include <sys/socket.h>
+include <sys/ioctl.h>
+ifdef HAVE_SYS_SELECT_H
#include <sys/select.h>
#endif
#include <sys/types.h>
#include <sys/param.h>
+#include <sys/ioctl.h>

#define BSD 43

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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_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
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
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</div></blockquote>
<hr class="docutils" />
<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 class="highlight-python"><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><span class="o">
</span>lib</pre></div></div>
class="n">g_inquire_names</span><span class="o">.</span><span class="n">c</span><span class="c"></span></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_process_context</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_reI_buffer</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_cred</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_name</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_0id_set</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_seal</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_sign</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_store_cred</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unseal</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_userok</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_utils</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_verify</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">gsse_i_name_to_uid</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">mgIueP</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">mglueP</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">oid_ops</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">spnego</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">mglueP</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_process_context</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_reI_buffer</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_cred</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_name</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_0id_set</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_seal</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_sign</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_store_cred</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unseal</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_userok</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_utils</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_verify</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">gsse_i_name_to_uid</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">mgIueP</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">mglueP</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">oid_ops</span><span class="c"></span></p><p><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">spnego</span><span class="c"></span></p>
and the initial implementation of incremental propagation, including the following new or changed files:

```python
include/iprop_hdr.h
kadmin/server/ipropSvc.c
lib/kdb/iprop.c
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_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
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    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
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   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
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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/mech_krb5/etc/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_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.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')
        if is_license:
            is_license = False
            is_license = False
            for line in comment:
                if is_license
                    warning(line, ln, 'License after code')
        if is_license:
            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:
            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
In += 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)

This package was debianized by Sam Hartman <hartmans@permabit.com> on

It was downloaded from:

<http://web.mit.edu/kerberos/>

Upstream Maintainers:

MIT Kerberos Team <krbdev@mit.edu>

The doc/krb5-protocol directory has been removed from the upstream
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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  
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  
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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

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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.Z20 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 poptoptest@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 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.
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.

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)
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
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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 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:
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)
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.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 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 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 "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.
Registered hosts only. If a reverse hostname lookup fails, the connection will be refused.

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",
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_lflag 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 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 semantics 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()/setpgroup
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) &
```
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 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 SYSVTERMIO 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():
TIOCEXTTurn on/off the TS_EXTPROC bit
TIOCSTATE 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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@vskip 20pt plus 1fil  
@end macro

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@end macro

@macro copyrightend{}  
@end macro

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@comment node-name, next, previous, up
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Fortuna in libhcrypto

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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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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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</body>

</html>

1.197 libhcrypto4-heimdal:amd64
1.7~git20150920+dfsg :4ubuntu1.16.04.1
1.197.1 Available under license:

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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.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 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.
k5dfsparse: 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 k5dfsparse 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 ifndef 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.

k5dfsparse.c is in lib/krb5
k5dfsparse.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:
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
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)
Ultrap 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)
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@bsd.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.

-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 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
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_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 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()/setpgp
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 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.

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
dbbugging 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 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:

TIOCSETXTurn on/off the TS_EXTPROC bit
TIOCSTGet t_state of tty to look at TS_EXTPROC bit
TIOCSTIGGenerate 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
exptrc" 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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@heading Marko Kreen

Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c
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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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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RFCs in lib/wind:

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rfc3490.txt, rfc3491.txt, rfc4013.txt, rfc4518.txt have been removed.
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1.198 libheimbase1-heimdal:amd64
1.7~git20150920+dfsg :4ubuntu1.16.04.1
1.198.1 Available under license:

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-- Tom St Denis

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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.
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.

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 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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1.7~git20150920+dfsg :4ubuntu1.16.04.1
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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
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.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
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dpagaix: An AIX syscall stub.
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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):

<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 adminstrator 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
-----------------------------
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)
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.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()/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 for 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.

Februrary 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 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 4.3 Reno, 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 semantics 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) &&
> 1 ((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 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:

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.
This package was debianized by Brian May <bam@snoopy.apana.org.au> on

It was downloaded from http://www.pdc.kth.se/heimdal/

Upstream Authors: heimdal-bugs@pdc.kth.se
(see above URL for mailing list info).

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As found in doc/heimdal.texi.

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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>
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DES core in libhcrypto

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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-- 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 KRB5CCNAME environment variable points at the cache.

- On the clients, DCE and Kerberos use the same format for the srvtab file. DCE refers to is a /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 cannot 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 k5dfsag.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_nnnnnnn.

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.

k5dfsag.c is to be built in the MIT Kerberos 5 release 1.0 patchlevel
I and added to the libkrb5. It will exec k5dcecon and upon return set
the KRB5CCNAME and PAG. Mods to Kerberized klogind, rshd, telnetd,
ftpd are available to use the k5dfsstag.

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 mnnnnnnn at the end. It
should look like an 8 char hex value, which may be 41fxxxxx on some
systems.
Su to root and unsetenv KRB5CCNAME. Do a testpag -n nnnnnnnn where nnnnnnnn 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.

Symmlink 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/lib/libdce.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;

    /* 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
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 
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 
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 
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:

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1.202 libhyperic-sigar-java 1.6.4+dfsg-2.1

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1.203 libicu55 55.1 :7ubuntu0.4

1.203.1 Available under license:

## -*-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

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.$(DYNAMIC_O): $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(DYNAMIC_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
%.d: $(SO).$(SO_TARGET_VERSION_MAJOR): %.d: $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.d: $(SO).$(SO_TARGET_VERSION_MAJOR): %.d: $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# 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>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
<title>ICU License - ICU 1.8.1 and later</title>
</head>
<body BGCOLOR="#ffffff">
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1.205 libisc-export160 1:9.10.3.dfsg.P4 :8ubuntu1.11

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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 3a0982da308228d796df35f98d787c5c98bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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</xsl:variable>

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

</xsl:stylesheet>

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

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* 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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#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;
            }
        }
    }
}

#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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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
inOverviewWinPackageInTypeIsInlineTagregister(Ljava/util/Map;)V

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(java/lang/String;)V
KSIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V</i></dt>
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BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.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
 * 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 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);
}

public boolean implies(Permission perm)
{
    /* 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>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>.
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * '(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ' ' + ')
 */

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

/* 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();
}
#!/usr/bin/python
#
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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 + '
')
        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',
        ])

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'decomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'decomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'decomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',

'ltwopts.m4',
'ltsgar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'inkinstaldirs',
'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 (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):
        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 ("
            ([Cc]opyright (C)'), etc.
            '([Cc]opyright'\n            '[Cc]opyrights+\&([Cc]\')\n            '\[Cc\]opyrights+%s'\n            '\([Cc]\)opyrights+&copy;'\n            '\([Cc]\)opyrights+@copyright\{\}''
            'copyright = u'\n            '[@sets+copyright\[w-\]+]'\n        "')
# 2: the years. Include the whitespace in the year, so that we can remove any excess.
'\s*\(?\s*:\s+\s*ranges\s+\s*:\s+\)?' '@value\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+\s+(?:\s+name\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)
    return year

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

        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):
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(['math-68881.h',])
        self.skip_dirs |= set(['ada',])
        self.skip_extensions |= set(['po',])
        self.fossilised_files |= set(['ONEWS',])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_extensions |= set(['c',])
def skip_file(self, dir, filename):
    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'])

        # Maintained by the translation project.
        # Automatically-generated.
        # Not really part of the library

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

        self.skip_dirs |= set(['soft-fp'])

        # Imported from GLIBC.

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

        self.skip_dirs |= set(['testsuite'])

        # Handled separately.

        # Not really part of the library
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):
    # initialization
    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')

    # initialization
    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('libsan')
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',
]
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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.

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

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* m4/ax_func_which_gethostbyname_r.m4

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Code
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checkGuard(L|java/lang/Object;)V
!
! java/lang/System"|getSecurityManager()|L|java/lang/SecurityManager;
%
&|java/lang/SecurityManager|checkPermission(L|java/security/Permission;)|V
obj|java/lang/Object;sm|java/lang/SecurityManager;implies(L|java/security/Permission;)|Z
equals(L|java/lang/Object;)|Z
hashCode()|I
getName()|L|java/lang/String;
getActionsnew|PermissionCollection&()|L|java/security/PermissionCollection;toString|gnu/java/lang/CPStringBuilder
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BCD|getClass()|L|java/lang/Class;
FHV
java/lang/Class45
J
K
L|gnu/java/lang/CPStringBuilder;
H
N
6
5
P
RT|java/lang/String01
:\nV
9
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SourceFilePermission.java!
F
**+>[]^|XM.,"+$nop
q ++
-.012345/*6578.95S;Y<L+=L+*AEIL+ =L+*LIL+*MOQ+ =L+*MIL+=L+U+
"+7>GN
SKWXYZ
1/java/security/acl/Permission|java/lang/Object|equals(L|java/lang/Object;)|Z|toString()|L|java/lang/String;
SourceFilePermission.java
==============================================

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

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<thead>
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<td>lib/interception/mach_override</td>
</tr>
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<td></td>
</tr>
</tbody>
</table>
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// DO NOT EDIT THIS FILE - it is machine generated.

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

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission : public ::java::lang::Enum
                {
                    #ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
                    #define __gnu_javax_sound_AudioSecurityManager$Permission__

                    namespace gnu::javax::sound
                    {
                        class AudioSecurityManager$Permission
                        {
                            ...
AudioSecurityManager$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@s.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@s.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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@end enumerate

@end enumerate

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---

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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
.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
@" 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+ CW-.1v\h'1p's-2+\h'1p'+\s0w',1v\h'-1p'
.ie n \{"
Escape single quotes in literal strings from groff's Unicode transform.

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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) \ printf (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_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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Version 3.1, 31 March 2009

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Version 3.1, 31 March 2009

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

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

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

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

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

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

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

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

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

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

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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@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

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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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application-supplied function or table used by this function must
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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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
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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<signature of Ty Coon>, 1 April 1990
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
    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',
            'mkinstalldirs',
            'mkinstalardirs',
            'pkg_install',
            'pkgversion.m4',
            'pkginstall.m4',
            'pkgcreatelinks.m4',
        'gpl-3.0.txt'])
'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]\[0-9-\]+][0-9-\]+'

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

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

        # 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'\s(\[(Cc)opyright\s*\%(Cc)s\|^\s+\")\1')

    # 2: the years.  Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\?[\[]?\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

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.copyright_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:

            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',
        )
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',
        ])}

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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([
            # 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):
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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@end ifinfo
@page
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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "C"
{
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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#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;

/**
 * A simple Taglet which handles Copyright information.
 */

class CopyrightTaglet implements Taglet {

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

    public void handleTag(Tag tag) {
        // Handle the Copyright tag
    }
}
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;
}

StringBuffer CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+, put&(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
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KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/*1-
7.;,.?C.G.K_O!S"#QYSL.*+%+"WWXY.-
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
{
    /**
     * 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)
```java
{
    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>('+ getClassName().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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1998-05-11

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*m4/ax_func_which_gethostbyname_r.m4*

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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$;
};

#pragma 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
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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/* 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"
   
/* 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
      
/* 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

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   ( fputs (".lcomm ", (FILE)),			
      assemble_name ((FILE), (NAME)),		
      fprintf ((FILE), ",%u,%u

#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
#endif

/* This is how to output an assembler line
 that says to advance the location counter */
to a multiple of \(2^{\text{LOG}}\) bytes. */

```c
#define ASM_OUTPUT_ALIGN(FILE,LOG)\t
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)\t
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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1.213 libjna-java 4.2.2-1

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

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

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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.

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

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1.221 libjts-java 1.13+ds-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_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/spnegomech.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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# 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 in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
This package was debianized by Sam Hartman <hartmans@permabit.com> on

It was downloaded from:

<http://web.mit.edu/kerberos/>

Upstream Maintainers:

MIT Kerberos Team <krbdev@mit.edu>

The doc/krb5-protocol directory has been removed from the upstream
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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
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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
- slave/kproplog.c

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For administrators

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Building Kerberos V5

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```
lib/gssapi/generic/gssapi_err_generic.c
```

including the following files:

```
debug
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
```
class="n">g_export_name</span><span class="o">.</span><span class="n">c</span>
</li>
<li class="n">lib</li>
<li class="n">gssapi</li>
<li class="n">mechglue</li>
<li class="n">g_glue</li>
<li class="n">g_imp_name</li>
<li class="n">g_imp_sec_context</li>
<li class="n">g_init_sec_context</li>
<li class="n">g_initialize</li>
<li class="n">g_inquire_context</li>
<li class="n">g_inquire_cred</li>
<li class="n">g_inquire_names</li>
<li class="n">g_process_context</li>
<li class="n">g_rel_buffer</li>
<li class="n">g_rel_cred</li>
<li class="n">g_rel_name</li>
<li class="n">g_seal</li>
<li class="n">g_sign</li>
</ul>

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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
- gssd_pname_to_uid.c
- gssapi/gssapiP_spnego.h
- gssapi/gssapiP_spnego/spnego_mech.c
- gssapi/gssapiP_spnego/spnego.c
- gssapi/gssd_pname_to_uid.c
- gssapi/gssapiP_spnego/spnego.c
- gssapi/gssapiP_spnego/spnego.c
- gssapi/gssapiP_spnego/spnego.c
- gssapi/gssapiP_spnego/spnego.c
- gssapi/gssapiP_spnego/spnego.c
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.. 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
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   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
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   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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.. 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 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
    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 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:]:
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license
# Strip out whitespace and comments contained within a line.
if not in_comment:
    line = re.sub(r'\s*\*\*\s*', '', 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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- <tt class="docutils literal"><span class="pre">context_time</span></tt>
- <tt class="docutils literal"><span class="pre">delete_sec_context</span></tt>
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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`
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- `slave/Error_tables/kpropd_err.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
```
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/kproplg.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

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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```

Release Notes:

- popper-1.831beta is no longer beta

Removed popper-1.7.tar.Z

- popper-1.831beta.tar.Z

April 91

Changed mkstemp to mktemp for Ultrix. Sigh.

- popper-1.83beta.tar.Z

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
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GSS-API mechglue layer.

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSS-API CFX, SPNEGO, naming extensions, API extensions.</td>
<td></td>
</tr>
<tr>
<td>KCM credential cache.</td>
<td></td>
</tr>
<tr>
<td>HDB LDAP backend.</td>
<td></td>
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</tbody>
</table>

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Fortuna in libhcrypto

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Camellia in libhcrypto

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vis.c in libroken

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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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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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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
k5decon: 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
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):
-ldec (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 adminstrator 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
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
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()/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.

-f/-F

Allows forwarding of credentials for KRB5.

Februrary 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_GETTTYTAB #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 cfgetspeed()/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_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_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 semantics 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
> --- tty_pty.c Tue Sep 11 17:48:03 1990
> ***************
> *** 609,613 ****
> if ((tp->t_iflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data);
> return(0);
> }
> --- 609,616 ----
> if ((tp->t_iflag&NOFLSH) == 0)
> ttyflush(tp, FREAD|FWRITE);
> ! pgsignal(tp->t_pgrp, *(unsigned int *)data, 1);
> ! if (*(*(unsigned int *)data == SIGINFO) &&
> ! (tp->t_iflag&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 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 ECHO0
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
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):

TIOCEXTTurn on/off the TS_EXTPROC bit
TIOCGSTATEGet 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 KLUDGELINE
MODE 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 recongnizes, 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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Camellia 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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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
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Kerberos RT #3466
Debian bug #261712

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--- 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/time.h>
#include <sys/socket.h>
+#include <sys/ioctl.h>

#ifdef HAVE_SYS_SELECT_H
#include <sys/select.h>
#endif

#ifndef BSD
#define BSD 43
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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_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_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
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slave/kpropd_rpc.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'/\*([^\s]*)\-\s*\*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')

# 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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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
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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For plugin module
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&lt;tt class="docutils literal"&gt;&lt;span class="pre"&gt;src/lib/gssapi&lt;/span&gt;&lt;/tt&gt;, including the following files:&lt;/p&gt;&lt;div class="highlight-python"

```python
lib/<span>class</span>/gssapi/generic/gssapi_err_generic.c
lib/<span>class</span>/gssapi/mechglue/g_accept_sec_context.c
lib/<span>class</span>/gssapi/mechglue/g_acquire_cred.c
lib/<span>class</span>/gssapi/mechglue/g_canon_name.c
lib/<span>class</span>/gssapi/mechglue/g_compare_name.c
lib/<span>class</span>/gssapi/mechglue/g_context_time.c
lib/<span>class</span>/gssapi/mechglue/g_delete_sec_context.c
lib/<span>class</span>/gssapi/mechglue/g_dsp_name.c
lib/<span>class</span>/gssapi/mechglue/g_dsp_status.c
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and the initial implementation of incremental propagation, including
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```python
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_convert.h
lib/gssapi/gssapiP_spnego.h
lib/gplueP/example/cmake
include/spnego_spnego.h
lib/gssapi/gssapiP/gssapiP.h
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.. parsed-literal::

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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
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    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:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/propd_svc.c
   lib/kdb/iprop.h
   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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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 "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/kpropllog.c

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- g_acquire_cred
- g_canon_name
- g_compare_name
- g_context_time
- g_delete_sec_context
- g_dsp_name
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- g_dsp_status
- g_exp_sec_context
- g_exp_name
- g_sp
- g_acquire_challenge

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```python
#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:

.. 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
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    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::

    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
    lib/gssapi/spnego/spnego_mech.c
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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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
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lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/uts/common/gssapi/include/gssapi_err_generic.h
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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
    # Check filename comment if present.
    ln = 0
    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)

1.228 libkrb5support0:amd64 1.13.2+dfsg
:5ubuntu2.1

1.228.1 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
==================================
--- 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/time.h>
#include <sys/socket.h>
+#include <sys/ioctl.h>
+
#ifdef 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/generic/gssapi_err_generic.et
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
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- <tt class="docutils literal"><span class="pre">g_context_time.c</span></tt>
and the initial implementation of incremental propagation, including
the following new or changed files:

include/class/iprop_hdr.h
kadmin/server/class/ipropd_svc.c
lib/kdb/class/iprop.x
lib/kdb/class/kdb_convert.c
lib/kdb/class/kdb_log.c
lib/kdb/class/kdb_log.h
lib/krb5/error_tables/class/kdb5_err.et
slave/kpropd_rpc/class/nslave.c
slave/kproplog/class/nslave.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_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
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/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
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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
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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lib/krb5/kadm5/kadm_host_srv_names.c
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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
# 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'/\* \([^ \]*)( - .*)? \*/\n', 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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    :hidden:

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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
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lib/gssapi/mechglue/g_dsp_status.c
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_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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# This program is intended to be used by "make check-copyright". It
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# 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)

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/*
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_sign.c
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.. 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

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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_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_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
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this license is to be interpreted:

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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,

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did for the opendap server as long as this is consistent with the opendap
license. Please forward this email to Kurt so he does the appropriate
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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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,

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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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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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From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
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* 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>
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<p>
 * 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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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>``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
 * @return a hash value
 */
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<br> * <code>java.security.Permission</code>.<br> *<br> * @version 0.0<br> *<br> * @author Aaron M. Renn (arenn@urbanophile.com)<br> */
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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> () VCode
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues4()}Lgnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
).s5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@

eAYYYYYSYSYS
GE
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 * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

!important // __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.)

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@c ispell-local-pdict: "ispell-dict"
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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
\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
..
.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+ Cv'-.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\'-\" diablo 10 pitch
.. if (\n(H=4u)&(1m=20u) .ds -- \*(W\h'-8u\'-\" diablo 12 pitch
Escape single quotes in literal strings from groff's Unicode transform.

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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) \nfprintf (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) \n( 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)),
   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))
#else

/* 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, 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',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mknstalldirs',
'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]+[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\copyright\(C\)'
'C\copyright\(C\)\s+'\s+\('
'C\copyright\(C\)'\s+'\s+&\copy\(''
'C\copyright\(C\)'\s+@\copyright\{\}
'\copyright\(\)\s+ut\('
'@\set\(s\)+copyright\[\w\-\]+\)'

# 2: the years. Include the whitespace in the year, so that
we can remove any excess.
'\(\s*\(\:\?\)\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).
'(' + 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.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

            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():

                # 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])
o.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]
'Options:
' % sys.argv[0])
format = '%-15s %s
'
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('nDirectories:
')
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',
        '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
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_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.')
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 ('libsssp')
        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',
            'libiberty',
            'libitm',
            'libjava',
            'libmudflap',
            'libobjc',
            'libquadmath',
            'libsssp',
            'libstdc++-v3',
            'lto-plugin',
            'libsanitiser',
            'libstdc++-v3',
            'libxml2',
        ]
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;
    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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or based on this library. If you modify this library, you may extend
this exception to your version of the library, but you are not
obligated to do so. If you do not wish to do so, delete this
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 ©");
                }
            }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValue	copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorMethod
inOverviewinPackageinTypesInlineTagregister(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+.
   */
/**
 * 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
 * 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>equals</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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/**
 * 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!  
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 Jansen (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 Dosser provided Alpha/OSF/1 code. He and Dave Detlef(s(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 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<>.
.tr \*(-W-
"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 #M1
  .ds #] MP
"\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
" 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.
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    (actually AT&T syntax for insns and operands,
     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
", (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_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), 	\"*%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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#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$;
};

#ifdef // __java_security_Permission__

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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__

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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
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If distribution of object code is made by offering access to copy
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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 `.i86/gas.h` --karl@cs.umb.edu */

#define LPREFIX "L"

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

#ifndef ASM_BYTE
#define ASM_BYTE "\t.byte\t"
#endif
#ifndef ASM_SHORT
#define ASM_SHORT "\t.word\t"
#endif
#ifndef ASM_LONG
#define ASM_LONG "\t.long\t"
#endif
#ifndef ASM_QUAD
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
#endif
/* 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)),\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)\n   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\$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’+.1v’hl’-1p’;s-2+hl’-1p’+s0’w’;1v’hl’-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\}
.e\{
. 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 \a\aq
.\el .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}
.e\{
. 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 [# \f1
. ds #] \fP
λ]
.if t \/
. ds #H ((1u-(\\n(.fu%2u))*.13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
\}
. " simple accents for nroff and troff
.if n \{|\}
. ds ' \&
. ds ` \&
. ds ^ \&
. ds . \&
. ds ~ ~
. ds / /
. " troff and (daisy-wheel) nroff accents
.if t \{|\}
. ds ' \k:\h'-(\n(.wu*8/10-3*(#H)')\h'\n:u''
. ds ` \k:\h'-(\n(.wu*8/10-3*(#H)')\h'|\n:u'
. ds ^ \k:\h'-(\n(.wu*10/11-3*(#H)'\h'|\n:u'
. ds . \k:\h'-(\n(.wu*8/10)'\h'|\n:u'
. ds ~ ~\k:\h'-(\n(.wu*8/10)'\h'|\n:u'
. ds / \k:\h'-(\n(.wu*8/10)'\h'|\n:u'
. " corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-3*(#H)'\h'|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-3*(#H)'\h'|\n:u'
. " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
{|}
. ds : e
. ds 8 ss
. ds o a
. ds d- dh' -1\(ga
. ds D- D'h' -1\(hy
. ds th 'obp'
. ds Th 'LP'
. ds ae ae
. ds Ae AE
\}
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@c End:

@c man end
@c ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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@end enumerate

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@heading How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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.

@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}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
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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 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:

@end 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

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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For more information on this, and how to apply and follow the GNU GPL, see
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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 Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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 Cridelig (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 Dettefs(dettefs@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.)

#!/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',
    'lt surged.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')
eturn 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*\(':? + ranges + ':'?  
    '@value\{"\}s\}s\)\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.
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 = []
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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 ...

    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(['math-68881.h', ])

        self.skip_dirs |= set(['ada', ])

        # Better not create a merge nightmare for the GNAT folks.

        # 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',

            # Import 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.')
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        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')


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10860
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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A 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.

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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
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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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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.

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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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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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'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

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

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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
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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>");
        }
    }
}

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.
*
* @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();
}
```java
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
 */
```
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);
}

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 * __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;
        }
      }
    }
  }
}

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

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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1.242 libmnl0:amd64 1.0.3 :5
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1.243 libmount1 2.27.1 :6ubuntu3.6
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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  *The DAYS OF THE WEEK
2. Boomtime    are named from the five
3. Pungenday   basic elements: SWEET,
4. Prickle-Prickle BOOM, PUNGENT, PRICKLE,
5. Setting Orange and ORANGE.

HOLYDAYS
A. Apostle Holydays
1. Mungday
2. Mojoday
3. Syaday
4. Zaraday
5. Maladay

Each occurs on the 5th day of the Season

B. Seasons Holydays
1. Chaoflux
2. Discoflux
3. Confuflux
4. Bureflux
5. Afflux

Each occurs on the 50th 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

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<td>27 28 29 30 31 13 14 15 16 17</td>
<td>28 29 30 1 2 52 53 54 55 56</td>
</tr>
<tr>
<td>Apr 1 2 3 4 5</td>
<td>Oct 3 4 5 6 7 57 58 59 60 61</td>
</tr>
<tr>
<td>6 7 8 9 10 23 24 25 26 27</td>
<td>8 9 10 11 12 62 63 64 65 66</td>
</tr>
<tr>
<td>11 12 13 14 15 28 29 30 31 32</td>
<td>13 14 15 16 17 67 68 69 70 71</td>
</tr>
<tr>
<td>16 17 18 19 20 33 34 35 36 37</td>
<td>18 19 20 21 22 72 73 1 2 3 Afm</td>
</tr>
<tr>
<td>21 22 23 24 25 38 39 40 41 42</td>
<td>23 24 25 26 27 4 5 6 7 8</td>
</tr>
<tr>
<td>26 27 28 29 30 43 44 45 46 47</td>
<td>28 29 30 31 1 9 10 11 12 13</td>
</tr>
<tr>
<td>May 1 2 3 4 5</td>
<td>Nov 2 3 4 5 6 14 15 16 17 18</td>
</tr>
<tr>
<td>6 7 8 9 10 53 54 55 56 57</td>
<td>7 8 9 10 11 19 20 21 22 23</td>
</tr>
<tr>
<td>11 12 13 14 15 58 59 60 61 62</td>
<td>12 13 14 15 16 24 25 26 27 28</td>
</tr>
<tr>
<td>16 17 18 19 20 63 64 65 66 67</td>
<td>17 18 19 20 21 29 30 31 32 33</td>
</tr>
<tr>
<td>21 22 23 24 25 68 69 70 71 72</td>
<td>22 23 24 25 26 34 35 36 37 38</td>
</tr>
<tr>
<td>26 27 28 29 30 73 1 2 3 4 Cfn</td>
<td>27 28 29 30 1 39 40 41 42 43</td>
</tr>
<tr>
<td>31 1 2 3 4 5 6 7 8 9</td>
<td>Dec 2 3 4 5 6 44 45 46 47 48</td>
</tr>
<tr>
<td>Jun 5 6 7 8 9 10 11 12 13 14</td>
<td>7 8 9 10 11 49 50 51 52 53</td>
</tr>
<tr>
<td>10 11 12 13 14 15 16 17 18 19</td>
<td>12 13 14 15 16 54 55 56 57 58</td>
</tr>
<tr>
<td>15 16 17 18 19 20 21 22 23 24</td>
<td>17 18 19 20 21 59 60 61 62 63</td>
</tr>
<tr>
<td>20 21 22 23 24 25 26 27 28 29</td>
<td>22 23 24 25 26 64 65 66 67 68</td>
</tr>
</tbody>
</table>
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 --systohc 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 --systohc, 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.

(you can get more information about these two clocks in the hwclock(8) man page).

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.

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
    http://userweb.kernel.org/~akpm/stuff/tpp.txt

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.

`fdisk': the Linux partition table editor
=========================================

`fdisk' is the Linux partition table editor. In this section we
examine this utility and try to describe it thoroughly enough so that
anyone can use it.

* Contents:

* Disks and how they are described.
* Dividing up your disk.
* The `fdisk' command.
* Deleting and adding partitions.
* Active flags and system types.
* Extra commands for experts.
* Warnings for `fdisk' users.

Disks and how they are described
--------------------------------

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 controller card or the BIOS, which map the physical geometry of a disk onto a logical geometry, which is what is actually used to access the disk.

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

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Begin</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/hda1</td>
<td>*</td>
<td>1</td>
<td>1</td>
<td>10021+</td>
<td>10021+</td>
<td>1</td>
<td>DOS 12-bit FAT</td>
</tr>
<tr>
<td>/dev/hda2</td>
<td>837</td>
<td>837</td>
<td>977</td>
<td>5992+</td>
<td>5992+</td>
<td>5</td>
<td>Extended</td>
</tr>
<tr>
<td>/dev/hda3</td>
<td>*</td>
<td>237</td>
<td>237</td>
<td>836</td>
<td>25500</td>
<td>83</td>
<td>Linux native</td>
</tr>
<tr>
<td>/dev/hda5</td>
<td>837</td>
<td>837</td>
<td>936</td>
<td>4249+</td>
<td>4249+</td>
<td>82</td>
<td>Linux swap</td>
</tr>
<tr>
<td>/dev/hda6</td>
<td>942</td>
<td>942</td>
<td>977</td>
<td>1522</td>
<td>1522</td>
<td>1</td>
<td>DOS 12-bit FAT</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Disk /dev/hda: 5 heads, 17 sectors, 977 cylinders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units = sectors of 1 * 512 bytes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Begin</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/hda1</td>
<td>*</td>
<td>1</td>
<td>17</td>
<td>10021+</td>
<td>1</td>
<td>10021+</td>
<td>1 DOS 12-bit FAT</td>
</tr>
<tr>
<td>/dev/hda2</td>
<td>71060</td>
<td>71060</td>
<td>83044</td>
<td>5992+</td>
<td>5</td>
<td>Extended</td>
<td></td>
</tr>
<tr>
<td>/dev/hda3</td>
<td>20060</td>
<td>20060</td>
<td>71059</td>
<td>25500</td>
<td>83</td>
<td>Linux native</td>
<td></td>
</tr>
<tr>
<td>/dev/hda5</td>
<td>71061</td>
<td>71061</td>
<td>79559</td>
<td>4249+</td>
<td>82</td>
<td>Linux swap</td>
<td></td>
</tr>
<tr>
<td>/dev/hda6</td>
<td>79985</td>
<td>80001</td>
<td>83044</td>
<td>1522</td>
<td>1</td>
<td>DOS 12-bit FAT</td>
<td></td>
</tr>
</tbody>
</table>

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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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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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!

mount/umount for Linux 0.97.3 and later.
Authors:
Doug Quale <quale@saavik.cs.wisc.edu>,
H.J. Lu <hlu@eecs.wsu.edu>,
Rick Sladkey <jrs@world.std.com>,
Stephen Tweedie <scf@dcs.ed.ac.uk>,
Andries Brouwer <aeb@cwi.nl>
Adrian Bunk <bunk@stusta.de>

Presently in util-linux maintained by Karel Zak <kzak@redhat.com>.

== 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.  
Germany  
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 endutent() 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.ists.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

23]@joes.pc.at.home

says 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):
rchatfie@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
jlaiho@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 Hyv{tti <HYVATTI@cc.helsinki.fi>.

Wrt. agetty: A \o 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. Time-
zone 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.hta.a.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 each line.

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)
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.
In order to sanitize e2fsprogs to be DFSG free, the file
draft-leach-uuids-guids-01.txt has been removed. It can be obtained
by downloading e2fsprogs from the upstream sources. It may also be
available from other sites on the network, if you do a quick web
search for the string ”draft-leach-uuids-guids-01”.

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
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Theodore Ts'o
October 3, 2006

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Version 2.1, February 1999

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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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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:
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.

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Version 2, June 1991

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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
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

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

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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 = -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));

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Ty Coon, President of Vice

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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;
    }
}
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() + "</i></dt>");
                }
            result.append("</dl>");
            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.
 * */
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

/* 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
*/
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();

#!/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',

            # Skip auto- and libtool-related files
            'aclocal.m4',
        ])

        self.skip_dirs |= 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',
        ])

        self.skip_extensions |= 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',
        ])

        self.fossilised_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',
        ])

        self.own_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 ('\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'Copyright \(C\)\s*\d*\s*\d*\s*\d*\s*\d*$')

        # 1: 'Copyright (C)', etc.
"([Cc]opyright"
"([Cc]opyrights+\([Cc]\)])"'
"([Cc]opyright\+s\+\%s'
"([Cc]opyright\+&copy;'
"([Cc]opyrights+@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).
'(\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
    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 not self.continuation_re.match(self.strip_continuation(next_line)):
                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)'):`

```python
    intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]
```

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

```python
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])

    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',
        '.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.')
        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.')
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 (libsssp)
        self.add_dir (lto-plugin)
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
        ]
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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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The file native/jni/midi-dssi/gnu_javaSound_midi_dssi_DSSISynthesizer.c contains two functions (get_port_default and set_control) derived from example code in the DSSI distribution (http://dssi.sourceforge.net). The original DSSI example code is distributed under the following terms:

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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;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
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getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder;
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FHGjava/lang/Class45
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H
N65P
RTSjava/lang/String01
:V95stringL.gnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]^*

XM,,*$nop
q *+
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Developed by:

LLVM Team

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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16/gnu/javasound/AudioSecurityManager$Permission.java

AudioSecurityManager$Permission;

RECORDALLENUM$VALUES2[L.gnu/javasound/AudioSecurityManager$Permission;<clinit>()V

<init>(Ljava/lang/String;I)V

LineNumberTableLocalVariableTable

thisvalues4)[L.gnu/javasound/AudioSecurityManager$Permission;

$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V

valueOfE(Ljava/lang/String;)L.gnu/javasound/AudioSecurityManager$Permission;

.),-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;

SourceFileAudioSecurityManager.java

SignatureCLjava/lang/Enum< Lnunu/javasound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/javasound/AudioSecurityManager

Permission@1@@@

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

#ifdef__gnu_javax_sound_AudioSecurityManager$Permission__
#endif__gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>

#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace java
{
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 (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@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 (dou@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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@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
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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
λ" give an unbreakable dash, \{PI will give pi, \{L" will give a left
λ" double quote, and \{R" will give a right double quote. \{C+ will
λ" give a nicer C++. Capital omega is used to do unbreakable dashes and
λ" therefore won’t be available. \{C’ and \{C’ expand to ‘’ in nroff,
λ" nothing in troff, for use with C<<.
.tr \{\{W-
.ds C+ C\{v\{.1v\{h\{i\{.1p\{i\{s\{2+\{h\{i\{.1p\{i\{s\{0\{v\{.1v\{h\{i\{.1p\'
.ie n \{
 . ds -- \{\{W-
 . ds PI pi
 . if (\n(.H=4u)&(1m=24u) . ds -- \{\{W\{h\{i\{.12u\{\{\{W\{h\{i\{.12u\{\lambda" diablo 10 pitch
 . if (\n(.H=4u)&(1m=20u) . ds -- \{\{W\{h\{i\{.12u\{\{\{W\{h\{i\{.8u\{\lambda" diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C' "
\br\}
.el \{
 . 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 \(aq\)
.el       .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 \n(F \{
 . de IX
 . tm Index:\\$1\\n\n%\\n\\$2"
..        \nr % 0
 . rr F
λ}
.el \{\}
 . 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 \{

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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,%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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Version 2.1, February 1999

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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.

- 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.

@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
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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
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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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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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'],
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+]\[0-9\]'

        # 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\(C\)?\(\[Cc\]\)+\]'.replace ('\', r'\\'))
# 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
        else:
            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() + '\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...\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'

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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.
            ']}
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',
]

```python
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('Kakuto 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.')
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self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
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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('libsan')
    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',
        'libquadmath']
'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.

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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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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#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.

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

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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) {
            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
inOverviewinPackageinTypeisInlineTagregister(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/Tag
g
506*([Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
equals(Ljava/lang/String@Alength)(Ljava/lang/StringBuffer
BF<dl>
BHJappend,(Ljava/lang/String;Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©169:"
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>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 + ')
 */
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 representing this permission.
   *
   * @return A String representing this permission.
   */
  String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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```java
@append"(C)Gnu/java/lang/CStringBuilder;
```

```java
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()ZgetName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString();gnu/java/lang/CPStringBuilder;
```

```java
newPermissionCollection()
```

```java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
```

```java
SourceFilePermission.java!
F
```
// 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$;
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Version 2.1, February 1999

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Random Hacker.

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

That's all there is to it!
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.)
@c 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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@end group
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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\F 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'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'\p'\v'.1v'\h'-.1p'
.ie n \}.
.ds \p
.. .ds PI pi
.if \(n.(H=4u)&(1m=20u) .ds -- \(*)(W'\h'-.12u\')(\W'h'-8u'\p'\v'.1v'\h'-.1p'
.. .ds L" "
.. .ds R" "
.. .ds C’ "
.. .ds C’ "
.br}
.el}
.. .ds -- \{\(em\}.
.. .ds PI \"p
.. .ds L" "
.. .ds R" "

`\l`

`\l` Escape single quotes in literal strings from groff’s Unicode transform.

`.ie \n(.g .ds Aq \a
+.el \ds Aq`

`.ie`

`\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\n\n$2"
..`n
    nr % 0
    rr F`

`\l`

`.el \n`
    de IX

`\l`

`.el`

`\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 #\&
    ds #P
`

`.if t \n`
    ds #H ((1u-(\\n(.fu%2u))*.13m)
    ds #V .6m
    ds #F 0
    ds #\&
    ds #P
`

`\l`

`\l` simple accents for nroff and troff

`.if n \n`
    ds `\&
    ds `\&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
Open Source Used In Ultra Services Platform Version 6.7

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"

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.SH "DESCRIPTION"

"ls-1GNUs0 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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   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) \
(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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1.249 libncurses5:amd64 6.0+20160213:1ubuntu1

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-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
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1.250 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 \\n--prefix=/mingw \\n--without-cxx-binding \\n--without-ada \\n--enable-warnings \\n--enable-assertions \\n--enable-reentrant \\n--with-debug \\n--with-normal \\n--disable-home-terminfo \\n--enable-sp-funcs \\n--enable-term-driver \\n--enable-interop \\n--with-pthread

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 \\n--prefix=/mingw \\n--without-cxx-binding \\n--without-ada \\n--enable-warnings \\n--enable-assertions \\n--enable-reentrant \\n--with-debug \\n--with-normal \\n--disable-home-terminfo \\n--enable-sp-funcs \\n--enable-term-driver \\n--enable-interop \\n--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

```
make 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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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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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.

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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/log_msg.c
lib/netfilter/ct.c
include/netlink/netfilter/log_msg.h
include/netlink/netfilter/log.h
lib/netfilter/log_obj.c

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include/netlink/netfilter/queue_msg.h
lib/netfilter/queue_msg_obj.c
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
src/nf-queue.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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src/nl-addr-list.c
src/nl-cls-add.c
src/cl/s-utils.c
src/cl/s-cgroup.c
src/cl/s-utils.h
src/cl/s-basic.c
src/nl-addr-delete.c:

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include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
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lib/xfrm/ae.c
lib/xfrm/sp.c
lib/xfrm-selector.c
lib/xfrm/lifetime.c

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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
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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
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src/nl-cla-add.c
src/clg/utils.c
src/clg/cgroup.c
src/clg/utils.h
src/clg/basic.c
src/nl-addr-delete.c:

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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
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lib/netfilter/queue_msg_obj.c
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/xfrm/sa.h
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include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
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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
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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.

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1.262 libp11-kit0 0.23.2 :5~ubuntu16.04.1
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        common/test-constants.c common/test-hash.c
        p11-kit/pkcs11.h p11-kit/test-managed.c p11-kit/test-modules.c
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p11-kit/test-log.c trust/anchor.c trust/anchor.h
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trust/extract-cer.c trust/extract.h trust/extract-jks.c
trust/extract-openssl.c trust/extract-pem.c trust/index.c
trust/index.h trust/list.c trust/list.h trust/persist.c
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1.263 libpam-modules-bin 1.1.8 :3.2ubuntu2.1

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Hello!

Thanks for downloading Linux-PAM.

NOTES:

How to use it is as follows:

```
./configure --help | less
./configure <your-options>
make
```

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)

```
#%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
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.

1.264 libpam-modules:amd64 1.1.8 :3.2ubuntu2.1
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1.265 libpam-pwquality 1.3.0 :0ubuntu1

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1.267 libpam0g 1.1.8 :3.2ubuntu2.1

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1.269 libpci3:amd64 1:3.3.1 :1.1ubuntu1.2

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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 original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po  
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po  
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Julian Seward, jseward@bzip.org
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 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) = $output =~ /\d\b\d\d\d\d/;  
            or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
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Source: http://www.perl.com/CPAN/src/5.0/

Comment:
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Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

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

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the'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
metaSpec:
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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The End
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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\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
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resources:
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

That's all there is to it!

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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 \texttt{C<--now>} option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*/$b\d\{4,\}/s
    or die "Year not found in README copyright message "$copyright_msg"; 

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
        or die "Copyright statement not found in perl -v output "$output"; 

$year;
}

---
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

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
Copyright:

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Part of this file carries the following comment:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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Preamble

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

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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
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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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3. You may opt to apply the terms of the ordinary GNU General Public
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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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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.

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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.

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A. HISTORY 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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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 
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L. Peter Deutsch
ghost@aladdin.com

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 conditionization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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zlib
----

The :mod:`zlib` extension is built using an included copy of the zlib
sources if the zlib version found on the system is too old to be used for the build:

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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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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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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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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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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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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 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;
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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  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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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 
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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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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
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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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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

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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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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
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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

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test_epoll

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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 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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-------

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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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
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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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- Use binascii module to do the actual line-by-line conversion
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--------------------------

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1.6.1 1.6 2001 CNRI yes (2)
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2.1.2 2.1.1 2002 PSF yes
2.1.3 2.1.2 2002 PSF yes
2.2 and above 2.1.1 2001-now PSF yes

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1.283 libpython3-stdlib:amd64 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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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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Execution tracing

------------------
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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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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 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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expat
-----

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libffi
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zlib
----

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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 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
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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/about/index.html'.

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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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Any feedback is very welcome.
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
-------

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Asynchronous socket services

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

XML Remote Procedure Calls
-------------------------------

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

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-------

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In 1995, Guido continued his work on Python at the Corporation for
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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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==============

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

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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
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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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Select kqueue
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---------

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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)

strtotd and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtotd 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
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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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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 `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

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

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---

test_epoll

----------

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

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The file `Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note:

```markdown
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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)
```

` المتعلقة` and `dtoa`

The 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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```
OpenSSL
-------

The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use the OpenSSL library for added performance if made available by the operating system. Additionally, the Windows and Mac OS X installers for Python may include a copy of the OpenSSL libraries, so we include a copy of the OpenSSL license here:

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expat
-----

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libffi
-----

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zlib
----

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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based
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--------

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

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)
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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 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
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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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- 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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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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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 ordeclspec 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 `-mcalllee-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:

```asm
movlr, pc
bxrX
```

(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
nop

.code 32
tstr0, #1
stmeqbr13!, {lr}
adreq lr, _arm_return
bxr0
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 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:

```
.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 `-mcallee-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:

```
without __attribute__((interfacearm)):

.code 16
.thumb_func
function:
... start of function ...
```

```
with __attribute__((interfacearm)):

.code 32
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:

```c
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':

.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, lr} pop {r1}

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
  stmd    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
```

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 -mcallee-super-interworking':

```
.arm:                      _thumb:
  orr      r12, pc, #1
  bx       r12
  mov     ip, sp
  stmd    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
  bxlr

  .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
  .thumb_func
  _func:
  movr0, #1
  bxlr

  .globl_call
  .thumb_func
  _call:
```
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`:

```
code16
.globl_func
.thumb_func
_func:
movr0, #1
bxlr
.globl_call
.thumb_func
_call:
push{lr}
bl__interwork_call_via_r0
pop{pc}
```

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:
orrr12, pc, #1
bxr12
.globl .real_start_of_func
.thumb_func
.real_start_of_func:
movr0, #1
bxlr
.globl_call
.globl .real_start_of_func
```
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:

```c
int __attribute__((interfacearm)) call (int (* ptr)(void));
```

then this code is produced (with only -O2 specified on the command line):

```asm
.globl .func
.thumb_func
.func:
moveq #1, r0
bx lr
.globl .func
.code32
.call:
orrr12, pc, #1
bxr12
.globl .real_start_of_call
.thumb_func
.real_start_of_call:
push{lr}
bl__call_via_r0
pop[r1]
bxr1
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
 Skip. With no DLL sources there is nothing to compile.

*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.


Copying and distribution of this file, with or without modification,
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:

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:
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.

WHAT'S 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-specific 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 getest 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 possibly 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_MAKEGLIB to avoid having these allocation-functions wrapped. (see gc.h)

Note that GCrealloc 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 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 defn f.ex GC_malloc as GC_amiga_malloc should also work).

New amiga-specific function:

```c
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-specific additions to make it compile with SAS/C again.

3. Updated and rewritten the smakefile, so that it works again and that the "unnecessary" SCOPTIONS' files could be removed. Also 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 Tauchmann's 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-specific. But I don't know. An iconx-script solves this problem anyway.

BEWARE!

- To run gctest, set the stack to around 200000 bytes first.
- SAS/C-specific: 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
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

===========================================================================
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!).
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 succeeded. 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"
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 equivalent 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-debug include 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.
')dnl
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
------------------------------------------

[Taken from the closed bug report #22769] 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. (-fslj-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 -fslj-exceptions (boo, bad choice :-)

Open Source Used In Ultra Services Platform Version 6.7
13105
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.

```cpp
#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;
}
```

Example:
```
#include <stdio.h>
void test(const char **b){
 printf ("%s\n",*b);
}
int main(void){
 char *test1="aoeu";
 test(&test1);
```

```cpp
#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;
}
```

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,
# 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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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

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!

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
installation of the package, look at:
On Debian GNU/Linux you find additional documentation in the libstdc++-6.3-doc package. After installing these packages, point your browser to

file:///usr/share/doc/libstdc++-6.3-doc/libstdc++/html/index.html

Other documentation can be found:

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, maintained by Marshall Cline <cline@parashift.com>. It can be found at the mirror sites linked from the following URL (this was last updated on 2010/09/11):

http://www.parashift.com/c++-faq/

or use some search engine site to find it, e.g.:

http://www.google.com/search?q=c%2B%2B+faq+lite

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.

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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 disabled 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 4.1 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 2.1.
- 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 CORDncmp (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 \texttt{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
dfinalizable 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 "srdir"-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
    synch, 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_malloc_ignore_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 gc_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 (MPROTECT_VDB) 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 ppcr 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 <seeb@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 longjmps 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 sbbrk 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
- 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 gc_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 gc_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 SPARCCCompiler 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 Tomsich 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 Ruohonen.)
- 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 gctest 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
- Added an attempt at a more general solution to dlopen races/deadlocks.
  GC_dlopen now temporarily disables collection. Still not ideal, but ...
- Added -DUSE_1686_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_ccep.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 gctest 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 anchornism 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_malloc_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_malloc_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 conditioned 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 getest 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 gc_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 never were 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
- 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 HPUX 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 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 Unix*-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 allchblk.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
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.
- Elimated 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/gc_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 GC_dirty_init 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 GC_finalizer_mem_freed, 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 McKinley and Tom Tromey for helping to track this down.)
- 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 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 gconfig.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 \texttt{GC\_\{M,C\}\_ALLOC\_EXPLICITLY\_TYPED} to \texttt{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 \texttt{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 \texttt{LINUX\_STACK\_BOTTOM}. (Thanks to Akira Tagoh for pointing out that \texttt{HEURISTIC\_1} doesn't work on 64-bit kernels.)

- Added \texttt{GC\_set\_free\_space\_divisor} to avoid some Windows dll issues.

- Added \texttt{FIXUP\_POINTER, POINTER\_SHIFT, POINTER\_MASK} to allow preprocessing of candidate pointers for tagging, etc.

- Always lock around \texttt{GC\_notify\_full\_gc()}. Simplified code for invoking \texttt{GC\_notify\_full\_gc()}.  

- Changed the way \texttt{DATA\_START} is defined on FreeBSD to be robust against an unmapped page after etext. (Thanks to Hironori Sakamoto for tracking down the intermittent failure.)

- Made \texttt{GC\_enable()} and \texttt{GC\_disable()} official. Deprecated direct update of \texttt{GC\_dont\_gc}. Changed \texttt{GC\_gc\_collect} to be a noop when garbage collection is disabled.

- Call \texttt{GC\_register\_dynamic\_libraries} before stopping the world on Linux, in order to avoid a potential deadlock due to the \texttt{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 \texttt{GC\_register\_dynamic\_libraries}. The latter is more reliable and easier on Linux with \texttt{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 \texttt{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 \texttt{--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 \texttt{__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 Thylman 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
is not in gcc3.3. Thanks to Ben Hutchings for finding it.)
- Attempted to sanitize the various DLL macros. GC_USE_DLL disappeared.
  GC_DLL is used instead. All internal tests are now on GC_DLL.
  README.macros is now more precise about the intended meaning.
- 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.)
- Removed 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 was interfering 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 libgcc++. 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
  eventhough 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.
  (Emmanual 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 -DEMPHY_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
  Petrosonian 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_de.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_HPUX_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_imp_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.gcj_malloc and friends need to check for finalizers waiting to be run. One of the more obscure allocation routines with missing a LOCK() call.
- Added GC.gc_no.
- GC.gcj_malloc and friends need to check for finalizers waiting to be run.
- CVTRRES 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.
- GC.gcj_malloc and friends need to check for finalizers waiting to be run.
- The USE_MUNMAP code could get confused about the age of a block and prematurely unmapped 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_iri_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 cordprnt.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 GC_ASSERTIONS enabled.)
- Added CRIS (etrax) support. (Thanks to Simon Posnjak and Hans-Peter Nilsson.)
- Removed GC_IGNORE_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 Verdoolaege.)
- Added Hannes Mehnert's patch for FreeBSD/SPARC support.
- Merged some FreeBSD specific patches to threadlibs.c and dyn_load.c. (Thanks to 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. Callpee-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 Sugio ka 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:

```plaintext
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:

```plaintext
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.

Janis Johnson, <janis187@us.ibm.com>
October 2002

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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/**  
  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

- **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 <cosminta@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() (x86 64-bit (AMD64 and Intel EM64t) code for x64 assembler to replace longest_match() and inflate_fast()
Open Source Used In Ultra Services Platform Version 6.7

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 Detlef (detlef@js.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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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

Boehm, Atkinson, and Plass, "Ropes: An Alternative to Strings",
Software Practice and Experience 25, 12, December 1995, pp. 1315-1330.

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 happenning 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 convenions 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 getest to pass when the GC was built as a dynamic library. Building with -DMPROTECT_VDB (and threads) on the command line should get you back to the old state.- HB

./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.
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 you 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 nowhere 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

Ray Dassen <jdassen@debian.org>
Jeff Bailey <jbailey@nisa.net>(hurd-i386)
Joel Baker <fenton@debian.org>(netbsd-i386)
Randolph Chung <tausq@debian.org>(ia64-linux)
Philip Blundell <pb@debian.org>(arm-linux)
Ben Collins <bcollins@debian.org>(sparc-linux)
Dan Jacobowitz <dan@debian.org>(powerpc-linux)
Thiemo Seufer <ths@networkno.de>(mips*-linux)
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 inversion) 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 -lrt -pthread with -lgcc and the system's -lc.
Finally we support parallel-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.

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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=-K PIC'
+ link_static=-B static'
+ 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++ ommit 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 ommiting crucial
+ # .lo/.o files from the created shared lib. This I think is not the case here.
+ archive_cmds='gcc -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='GCC -shared -h $soname -o $lib $libobjs $linkopts'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_shlibpath_var=no
    ;;
@@ -2092,12 +2119,17 @@
    ;;

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.ORIGMon Jan 28 20:31:18 2002
+++ ltmain.shTue Jan 29 00:11:29 2002
@@ -1072,11 +1072,38 @@
esac
      -thread*)
+      -pthread*)
# 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 $arg"
+    continue
+  ;;;
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+esac
+fi
+;;
+ -pthread*)
+# DG/UX GCC 2.95.x, 3.x.x rev (DG/UX) links -lthread
+# with the switch -pthread
+if test "$arg" = "-pthread"; then
+  case "$host" in
+  i[3456]86-*-dgux*)
+    deplibs="$deplibs $arg"
+    continue
+  ;;;
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+  esac
+esac
+fi
+;;
+

if test "$arg" = "-lc"; then
  case "$host" in
    -.*-cygwin* | .*-mingw* | .*-os2* | .*-beos*)
  + .*-cygwin* | .*-mingw* | .*-os2* | .*-beos* | i[3456]86-*-dgux*)
    # These systems don't actually have c library (as such)
    + # It is wrong in DG/UX to add -lc when creating shared/dynamic objs/libs
    continue
  esac
esac

@@ -1248,6 +1275,12 @@
temp_deplibs=
  for deplib in $dependency_libs; do
case "$deplib" in
  + -thread*)
    + temp_deplibs="$temp_deplibs $deplib"
  + ::
  + -pthread)
    + temp_deplibs="$temp_deplibs $deplib"
  + ::
    -R*) temp_xrpath=`$echo "X$deplib" | $Xsed -e 's/-R//r'`
case "$path $xrpath" in
  + *$temp_xrpath "*") ;;
  @ @ -1709,6 +1742,13 @@
done
  ::
+dgux)
+  + # Leave mostly blank for DG/UX
+  + major=.
+  + versuffix="$.current.$revision";
+  + verstring=
+  + ::
+  + linux)
+    major=`expr $current - $age`
+    versuffix="$major.$age.$revision"
+@@ -1792,8 +1832,9 @@
dependency_libs="$deplibs"
case "$host" in
  -.*-cygwin* | .*-mingw* | .*-os2* | .*-beos*)
  + .*-cygwin* | .*-mingw* | .*-os2* | .*-beos* | i[3456]86-*-dgux*)
    # these systems don't actually have a c library (as such)
    + # It is wrong in DG/UX to add -lc when creating shared/dynamic objs/libs
    ::
  *)
    # Add libc to deplibs on all other systems.
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.

[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 $\geq 15$MB. 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 a(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 an 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 + 0x3ffff) & ~0x3ffff) + (&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).)

__f.text
 : text segment
__e.text
__f.data = DATASTART
 : data segment (initialized)
__e.data
__f.bss
 : data segment (uninitialized)
__e.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, inflatePrime(), 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.

```html
<head>
<title>Five-in-a-row v 0.0</title>
</head>
<body LANG="en-US">
<h1>Five-in-a-row 0.0 supplementary documentation</h1>
<h3>Introduction and rules</h3>
<p>is a two player strategy game. The players are connected via network using CORBA-based RMI/IIOP protocol and make they 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.
</p>
<p>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 manger serves as a World-Wide-Pub where you can always find a partner to play.
```
The players can make 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.

### Configuration and run

The game manager server executable class is `gnu.classpath.examples.CORBA.swing.x5.X5Server` 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 is `gnu.classpath.examples.CORBA.swing.x5.Demo`.

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

Five-in-a-row
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 the 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 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>
<thead>
<tr>
<th>Our state</th>
<th>Partner state</th>
<th>Possible actions</th>
<th>Comment</th>
</tr>
</thead>
</table>

The game client
<table>
<thead>
<tr>
<th>State</th>
<th>Partner State</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disconnected</td>
<td>Partner not accessible</td>
<td>Connect</td>
<td>Initial state.</td>
</tr>
<tr>
<td>Queued</td>
<td>Partner not accessible</td>
<td>Leave</td>
<td>Queued by the game manager.</td>
</tr>
<tr>
<td></td>
<td></td>
<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></td>
<td></td>
<td>I think.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>I wait for your move</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>I think</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>After the partner makes the move, the state changes to</td>
<td>I think</td>
<td>I think</td>
<td>I think</td>
</tr>
<tr>
<td>, unless the end of game situation is detected by</td>
<td>the desk analyzer.</td>
<td>the desk analyzer.</td>
<td>the desk analyzer.</td>
</tr>
<tr>
<td>Can be entered with the help of the desk analyzer only.</td>
<td>Can be entered with the help of the desk analyzer only.</td>
<td>Can be entered with the help of the desk analyzer only.</td>
<td>Can be entered with the help of the desk analyzer only.</td>
</tr>
<tr>
<td>Error</td>
<td>Any</td>
<td>Any</td>
<td>Any</td>
</tr>
<tr>
<td>Chat, leave</td>
<td>Chat, leave</td>
<td>Chat, leave</td>
<td>Chat, leave</td>
</tr>
</tbody>
</table>
This should never happen under normal work, but the demo program may be modified by the user.

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.

The used RMI-IIOP architecture

Both player and game manager servants are derived from the

and, being servants, are simply connected to the

with

. 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

, 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

Class and interface summary

<table>
<thead>
<tr>
<th>Class and interface summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
</tr>
</tbody>
</table>
### Executables classes

<table>
<thead>
<tr>
<th>Executable</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>Defines remote methods that are invoked by another player or by the challenge server.</td>
</tr>
<tr>
<td>State</td>
<td></td>
</tr>
</tbody>
</table>
Defines the states in that the player can be.

<table>
<thead>
<tr>
<th>Class Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GameManager</strong>_Stub</td>
</tr>
<tr>
<td>Normally generated with rmic compiler, this class represents the GameManager Stub on the client side.</td>
</tr>
<tr>
<td><strong>GameManagerImpl_Tie</strong></td>
</tr>
<tr>
<td>Normally generated with rmic compiler, this class represents the GameManager Tie on the client side.</td>
</tr>
<tr>
<td><strong>Player</strong>_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><strong>PlayerImpl_Tie</strong></td>
</tr>
</tbody>
</table>
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>
ChatConstants
</td>
<td>
The chat color code constants, used to indicate who is talking.
</td>
</tr>
<tr>
<td>
ClientFrame
</td>
<td>
The JFrame of the GUI client.
</td>
</tr>
<tr>
<td>
GameManagerImpl
</td>
<td>
The manager connects two players into the game.
</td>
</tr>
<tr>
<td>
IorReader
</td>
<td>
Reads the remote URL.
</td>
</tr>
<tr>
<td>
OrbStarter
</td>
<td>
Starts the ORBs, involved into this application.
</td>
</tr>
<tr>
<td>
PlayerImpl
</td>
The implementation of the PlayerCommunicator, providing the local functionality.

| PlayingDesk | Manages actions, related to the game rules and also does all painting. |

See also

http://www.javascripter.net/games/xo/xo.htm

http://www.leepoint.net/notes-java/45examples/55games/five/five.html

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the 2 Independent modules, and to copy and distribute the resulting
executable under terms of your choice, provided that you also meet,
for each linked independent module, the terms and conditions of the
license of that module. An independent module is a module which is
not derived from or based on this library. If you modify this
library, you may extend this exception to your version of the
library, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version.
</font>
</p>
</p>
</br>
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<br>
<br>
<br>
First version written by <a href="http://savannah.gnu.org/users/audriusa">Audrius Me&scaron;kauskas</a></p>

</p>
</body>
</html>

This file describes the jaxp (xml processing) implementation of GNU Classpath.
GNU Classpath includes interfaces and implementations for basic XML processing
in 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.aelfred2.* ... 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
- gnu.xml.libxmlj.dom.* ... libxmlj DOM Level 3 Core and XPath
- gnu.xml.libxmlj.sax.* ... libxmlj SAX parser
- gnu.xml.libxmlj.transform.* ... libxmlj XSL transformer
- gnu.xml.libxmlj.util.* ... libxmlj 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 AElfred2 parser is highly conformant, though it still takes a few implementation shortcuts. See its package documentation for information about known XML conformance issues in AElfred2.

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 Elliotte 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.

XSL 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):
AElfred2:
-Djavax.xml.parsers.SAXParserFactory=gnu.xml.aelfred2.JAXPFactory

GNU DOM (using DOM Level 3 Load & Save):

GNU DOM (using AElfred-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:

```java
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:

```java
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 pthread implementations (in particular it will *not* work with MIT pthreads).

2) You must compile the collector with -DGC_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 -DGC_USE_LD_WRAP, and to link the final program with

(for ld) --wrap read --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==0)
    {
        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");
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

    address: Lars Farm
              Kr"nv"gen 33b
              856 44 Sundsvall
              Sweden

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
o C/C++ language
  - prefix file as described below
o 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
o PPC Linker
  - Factory Settings (SYM file with full paths, faster linking, dead-strip
    static init, Main: __start)

68K target settings
---------------------
o Target Settings:
  - name of target
  - MacOS 68K Linker
o 68K Target
  - name of library
  - A5 relative data
o C/C++ language
  - prefix file as described below
o 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
o IR Optimizer
  - enable: Optimize Space, Optimize Speed
    I suppose the others would work too, but haven't tried...
o 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:

---- ( 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 ------
```c
#include "gc_prefix_common.h"
#undef 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 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.
```

---

Open Source Used In Ultra Services Platform Version 6.7

13215
// 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
#endif

---- ( cut here ) ---- end of gc_prefix_common.h -----------------

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_chkck.c
reclaim.c
stubborn.c
typd_mlc.c
gc++.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
    argv=argv_; // have a
    argc = sizeof(argv_)/sizeof(argv_[0]); // commandline
    #endif

    int i, iters, n;
    #ifndef __GNUC__
      alloc dummy_to_fool_the_compiler_into_doing_things_it_currently_cant_handle;
    #endif

  - 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
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,
Open Source Used In Ultra Services Platform Version 6.7

# 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 patform-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)

MACRO EXPLANATION

___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
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13222

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 gcj-4.3_4.3-20070609.orig.tar.gz

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 it 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 gcj-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
snippets 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/gcccvvs/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

--
Permission to use, copy, and distribute these images for any purpose and without fee is hereby granted.

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 hoe to do perform partial links or to build static libraries, clients currently need to link against a long list of executables.

Copyright (C) 2000, 2003 Free Software Foundation, Inc.
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 know 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

```c
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 '1'.

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

```c
unsigned variable;
```

as shorthand for

```c
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:

```c
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

```c
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-ammended 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. "visuale6" for Visual C++ 6.0, or "visuale7" for Visual C++ 7.0 and 7.1).

Current projects
================

visuale6/ by Simon-Pierre Cadieux <methodex@methodex.ca> and Cosmin Truta <cosmint@cs.ubbcluj.ro>

Project for Microsoft Visual C++ 6.0

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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 -DGC_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
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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, gij, 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 -DREJECT_MALLOC=... 

SOLARIS THREADS:

The collector must be compiled with -DG_USE_SOLARIS_THREADS (thr_ functions) or -DG_USE_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 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.)
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
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 6.1alpah4, 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 "getest" 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="gtest - Win32 Release"
```

This requires that the subdirectory getest\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:

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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Jan 21, 2002

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```
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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." <br />

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. <br />

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overrides:
ceph:
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    debug mds: 20
    debug ms: 1
  client:
    debug client: 10

overrides:
ceph:
  conf:
    mds:
      mds bal frag: true
      mds bal split size: 100
      mds bal merge size: 5
      mds bal split bits: 3
overrides:
ceph:
  conf:
  client:
    fuse default permissions: false
    client posix acl: true
tasks:
- install:
- ceph:
- ceph-fuse:
roles:
- [mon.a, mds.a, osd.0, osd.1, client.0]
- [mon.b, mds.a-s, mon.c, osd.2, osd.3]
openstack:
- volumes: # attached to each instance
  count: 2
  size: 10 # GB
log-rotate:
ceph-mds: 10G
ceph-osd: 10G
overrides:
ceph:
  fs: xfs
  conf:
  osd:
    osd sloppy crc: true
overrides:
ceph:
  conf:
  mds:
    debug ms: 1
    debug mds: 20
  client:
    debug ms: 1
    debug client: 20
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- workunit:
  clients:
   all:
    - suites/pjd.sh
overrides:
ceph:
  log-whitelist:
- wrongly marked me down
conf:
  mds:
    debug mds: 20
    debug ms: 1
  client:
    debug client: 10

overrides:
ceph:
  conf:
  mds:
    mds bal frag: true
    mds bal split size: 100
    mds bal merge size: 5
mds bal split bits: 3

overrides:
ceph:
  conf:
  client:
    fuse default permissions: false
    client posix acl: true
tasks:
- install:
- ceph:
- ceph-fuse:
roles:
- [mon.a, mds.a, osd.0, osd.1, client.0]
- [mon.b, mds.a-s, mon.c, osd.2, osd.3]
openstack:
- volumes: # attached to each instance
count: 2
  size: 10 GB
log-rotate:
  ceph-mds: 10G
  ceph-osd: 10G
overrides:
ceph:
  fs: xfs
  conf:
    osd:
      osd sloppy crc: true
overrides:
ceph:
  conf:
  mds:
    debug ms: 1
    debug mds: 20
client:
  debug ms: 1
  debug client: 20

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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) -

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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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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When a program is linked with a library, whether statically or using
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combined work, a derivative of the original library. The ordinary
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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
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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
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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 * Rob Earhart
 * Rob Siemborski
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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.

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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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
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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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1.301 libselinux1:amd64 2.4 :3build2

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Manoj Srivastava <srivasta@debian.org>
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1.302 libsemanage-common 2.3 :1build3

1.302.1 Available under license:
This is the Debian packe for libsemanage, and it is built from sources obtained from: http://www.nsa.gov/selinux/code/download5.cfm.

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

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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.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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* Merlin Hughes  
Original author of sensord.  
* Bob Schlaermann  
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.  
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* Jean Delvare  
New libsensors API, and migration of sensors and sensord thereto.  
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Support for multiple configuration files in libsensors.

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Wed, 14 May 2008 10:29:00 +0100.

It was heavily modified to support the full Tomcat6 server stack by
Thierry Carrez <thierry.carrez@ubuntu.com>, based on the great work done by
the Debian Java Maintainers <pkg-java-maintainers@lists.alioth.debian.org>
on Tomcat 5.5 and initial packaging by David Pashley <david@davidpashley.com>.

It was downloaded from http://tomcat.apache.org

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libblkid/src/partitions/*
libblkid/src/superblocks/*
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Initialize empty image
f1c9645db14efddc7e8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df0f55067c18f2e9 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  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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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 GNUish
    --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/shhopt-1.1.2.tar.gz
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lib/snprintf.c, lib/snprintf.h:
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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1.310 libsnmp-base 5.7.3+dfsg :1ubuntu4.2

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This is the Debian GNU/Linux prepackaged version of Net-SNMP.

This package was put together by David Engel <david@debian.org>, from sources obtained from http://net-snmp.sourceforge.net/.
It is now maintained by Jochen Friedrich <jochen@scram.de>.
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This package was put together by David Engel <david@debian.org>, from sources obtained from http://net-snmp.sourceforge.net/.

It is now maintained by Jochen Friedrich <jochen@scram.de>.

As of version 5.4, the upstream sources contain non DFSG-free RFCs in the doc directory which has been removed for Debian.

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    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>
<td>
    <div style="padding:0 1em 0px 0;white-space:nowrap">
        <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...">
            <input type=submit value="Go" style="border:solid white 1px;background-color:#044a64;color:white;font-size:0.9em;padding:0 1ex">
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1.315 libss2:amd64 1.42.13 :1ubuntu1

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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 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 T's'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:
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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>.

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/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
- 
- Copyright (C) Andrew Tridgell 2005
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**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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJ))
$(MV) pic/$(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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Theodore Ts'o
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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): $(OBJ)
(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 @@
*/

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

- trivial database library - private includes
-
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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@ifx
@heading END OF TERMS AND CONDITIONS
@end ifx
@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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Lesser General Public License for more details.

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.

@var{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:
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

            # Note that things like --version output strings must be updated before
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            # Note that things like --version output strings must be updated before
            # this script is run. There's already a separate procedure for that.
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+]*[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 + '[' + range + 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).
'(\' + 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 = []

    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...
' % os.path.join (dir, filename))
Options:

for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('nDirectories:\n')

    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)

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

self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
sel.add_package_author('Free Software Foundation', canon_fsf)
sel.add_package_author('Free Software Foundation Inc.', canon_fsf)
sel.add_package_author('Free Software Foundation, Inc', canon_fsf)
sel.add_package_author('Free Software Foundation, Inc.', canon_fsf)
sel.add_package_author('The Free Software Foundation', canon_fsf)
sel.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
sel.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,')
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.')
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',
            'libjava',
            'libmudflap',
            'libobjc',
            'libquadmath',
            'libssp',
            'libstdc++-v3',
            'lto-plugin',
            'zlib']

    def add_author (self, text):
        self.add_external_author (text)
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
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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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!
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/
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:
?:?@append"(C)Lgnu/java/lang/CPStringBuilder;
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Copyright:<init>()VCode
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inConstructorinMethod
inOverviewinPackageinTypeisInlineTagregister(Ljava/util/Map;)V
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7806)+=>+29<=+BYDN-EGW67+29<=KYMO+29RURWGW+-YGW-[F'adefge+k/l7m>nDoSpunstw>\]^_`a7TbcA>'ade
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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("</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 {

/**
 * 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
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();
}
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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 <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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University of Illinois at Urbana-Champaign

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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.

#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 = -563657022231596674L;
::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$Permission;
}
}
} // __gnu_javax_sound_AudioSecurityManager$Permission__

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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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      (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
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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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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
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<program> Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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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\"\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)  
/* Define the syntax of labels and symbol definitions/declarations. */

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

#!/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.
#
# 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',]
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'+ranges+'[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'
# 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)

    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)'

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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...
' % 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):
    # 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')
    if filename == 'ICC\_Profile.h':
        return re.compile(r'.*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')
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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',
            'libiberty',
            'libitm',
            'libjava',
            'libmudflap',
            'lto-plugin',
            'libstdc++-v3',
            'libssp',
            'libquadmath',
            'libsanitiser']
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()

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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.)

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.

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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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 {\em Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers {\em 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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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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@page
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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$;
};
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __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;
        }
    }
}

1f+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
inOverviewinPackageinTypelineinlineTagregister(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/Ta
/* 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>
 *<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.
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
 * 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 representing this permission.
 *
 * @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/Permission.java/lang/Object.java/security/Guard.java/io/Serializable/serialVersionUID]
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;):VC
()V
LineNumberTable
LocalVariableTable
thisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%"$java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)V
objLjava/lang/Object;smLjava/lang/SecurityManager;
implies(Ljava/security/Permission;)Z
equals(Ljava/lang/Object;)Z
hashCode();
getName()Ljava/lang/String;
getActions();newPermissionCollection&()Ljava/security/PermissionCollection;
toString();gnu/java/lang/CPStringBuilder;
java/lang/Object
equals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
java/lang/Object
getActions();
toString();
java/lang/Object
getActions();
```
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
)L(java/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFile<AudioSecurityManager.java
SignatureCLjava/lang/Enum<gnu/java/sound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/java/sound/AudioSecurityManager
Permission@1@@@

// 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;
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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(agle@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@grucho.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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/* 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
", (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), 
        				"*%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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1.318 libsystemd0:amd64 229 :4ubuntu21.15

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

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

4. You may copy and distribute the Library (or a portion or
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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.)

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

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

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

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1.321 libtext-iconv-perl 1.7-5build4

1.321.1 Available under license:
This package Debianised by Steve Haslam <araqnid@debian.org> on 4th March 2000.

It is currently maintained by Anibal Monsalve Salazar <anibal@debian.org>.

Originally downloaded from CPAN:
<URL:http://search.cpan.org/search?dist=Text-Iconv>

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

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1.322 libtext-wrapi18n-perl 0.06-7.1

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This package was debianized by Tomohiro KUBOTA <kubota@debian.org> on Thu, 19 Jun 2003 23:09:55 +0900.

It was downloaded from http://www.cpan.org/modules/by-module/Text/Text-WrapI18n-<version>.tar.gz

Upstream Author: Tomohiro KUBOTA <kubota@debian.org>

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1.323 libtinfo5:amd64 6.0+20160213
:1ubuntu1
1.323.1 Available under license :

This is the Debian prepackaged version of the ncurses library and terminfo utilities. ncurses/terminfo was originally written by Pavel Curtis and Zeyd M. Ben-Halim <zmbenhal@netcom.com>, and is 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 obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz.
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 Braakman <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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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 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: *
Licence: X11

Files: aclocal.m4 package
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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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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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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',
    'decomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltscript.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldir',
    '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.
nname = '[\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'\[(Cc)opyright\]'  # 1: 'Copyright (C)', etc.
    r'\[(Cc)opyright\s+\{(Cc)\}\]'  
    r'\[(Cc)opyright\s+%s'  
    r'\[(Cc)opyright\s+&copy;'  
    r'\[(Cc)opyright\s+@copyright\} \]'  
    r'copyright = u"'  
    r'@set\s+s+copyright[\w-]+\)'  
    r'(\s*(?:' + ranges + ',?|\@value\{(^[{}]*\})))\s*')  
    r'(by\s+)?'  
    r'(by\s+)(?\s?*name\s*+?*name + )?')

# 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).
'\(' + name + '(?\s?*name\s*+?*name + )\)?')

# 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.
sself.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
sself.comment_re = re.compile('#+|[*]+|;+|%+//+|@c dnl

self.holders = { '@copying': '@copying' }
sself.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)
ext 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
' % sys.argv[0])
    '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)

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',

    # 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 owned 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.
        ])}
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('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 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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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

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

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.
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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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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4. You may copy and distribute the Library (or a portion or
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If distribution of object code is made by offering access to copy
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structure layouts and accessors, and small macros and small inline
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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// 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$;
};

#undef __java_security_Permission__

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#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

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#undef __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>\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");
                }
            }
        }
    
}
/* 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
 */

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.
 *
 */
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".

* @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();
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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
 */
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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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
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Ty Coon, President of Vice

That's all there is to it!
#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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   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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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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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(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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@enumerate a
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\textit{PP}

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\textit{PP}

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\textsc{Subsection} "\textsc{TERMS} \textsc{AND} \textsc{CONDITIONS}"

\textsc{IP} "0. Definitions."

\textsc{IX Item} "0. Definitions."

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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), 	\"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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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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#
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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 + '
')
        self.num_errors += 1

    def report_errors (self):
        return self.num_errors

    def report_info (self, message):
        print '+' + message

    def report_error (self, message):
        print '-' + message
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',
            'ltshugar.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(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+\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(
            '(?:(C)opyright\s+(C)opyright|C(opyright\s+\(C\)|copyright\s+\(C\)')
            '|(\s*(?:' + ranges + ',?|@value\{[^{}]*\})\s*)'
            '|by\s+)?' + name + '(?:\s+' + name + ')*)?'

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*\([^\s]*\)\s*\)'
        '|@set\s+copyright\[\w-\+\]'

        # 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+\([^\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]','
     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)
    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)

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14639
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',
            '.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.'
sel.add_package_author ('Free Software Foundation', canon_fsf)
sel.add_package_author ('Free Software Foundation.', canon_fsf)
sel.add_package_author ('Free Software Foundation Inc.', canon_fsf)
sel.add_package_author ('Free Software Foundation, Inc', canon_fsf)
sel.add_package_author ('Free Software Foundation, Inc.', canon_fsf)

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('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('lto-plugin')
# zlib is imported from upstream.

default_dirs = ['gcc', 'libada', 'libatomic', 'libbacktrace', 'libcpp', 'libdecnumber', 'libgcc', 'libfortran', 'libgomp', 'libitm', 'libmudflap', 'libobjc', 'libstdc++-v3', ]

GCCCmdLine().main()

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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,

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themselves, then this License, and its terms, do not apply to those

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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

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

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

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

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

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

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

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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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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
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be optional: if the application does not supply it, the square
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@end enumerate

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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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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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@end enumerate

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@page
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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 = -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.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) {
            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;
}
}
}
/*
java/util/Map+=,put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMap(Ljava/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@Alength()ICjava/lang/StringBuffer
BF<dl>
BHIappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN&lt;/i&gt;Copyright &amp;#169;
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BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
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"*/
7.;:,?.,G.K,O!,:S"#QY$S*+%+%WWXY-.
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*2Y+$48

/* 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)`
*/

```java
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

// Permission.java -- Information about an ACL permission

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 * Permission.java -- Information about an ACL permission
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 */

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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\[java/security/Permission\]java/lang/Object\]java/security/Guard\]java/io/Serializable\]serialVersionUID\]J
ConstantValue\]()WQ~name\]java/lang/String\}<init\]()Ljava/lang/String\);VCode()
\]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\);Vobj\]java/lang/Object\]sm\]java/lang/SecurityManager\]implies\]Ljava/security/Permission\);Zequals\]Ljava/lang/Object\]ZhashCode\]ILjava/lang/String\;
getActions\]newPermissionCollection\]&\]Ljava/security/PermissionCollection\]toString\]gnu/java/lang/CPStringBuilder
#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(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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ispell-local-pdict: "ispell-dict"
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.br
.if t .Sp
.ne 5
.PP
 MF$iMR
 .PP
.. 
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
\" 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 \m\W-
ds C+ CV\'-1V\dh\'-1p\'=2+V\dh\'-1p+=s0V\'.1V\dh\'-1p'
.ie n n{| 
 . ds -- \*W-
 . ds PI pi
 . if (\n.\H=4U)\&(1m=24U) .ds -- \*W\dh\'-12u\(*W\dh\'-12u\-' \" diablo 10 pitch
 . if (\n.\H=4U)\&(1m=20U) .ds -- \*W\dh\'-12u\(*W\dh\'-8u\-' \" diablo 12 pitch
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 . ds L'' ''
 . ds R'' ''
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\l\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(g .ds Aq \(aq
.el .ds Aq '
\el {
\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 {| 
 . de IX
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 . nr % 0
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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fudge factors for nroff and troff

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Sh "Preamble"

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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 `.c'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 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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</appendix>

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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.
1.325 libubsan0 5.4.0 :6ubuntu1~16.04.11

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There is a license section in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.
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Version 3.1, 31 March 2009

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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
        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',
            'ltmaindirs',
            '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]+[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\}']'  
            '<?\s+\[\w-\]>'  
            '[@\s+copyright\{\w-\}+]')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s+\[\w-\]']+' ranges + '\s+\[\w-\]']+' '  
            '|@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)
        year_list = [self.parse_year(year) for year in self.year_re.findall(years)]
        assert len(year_list) > 0

    def year_range(self, years):
        year_list = self.parse_year(years)
        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: %s\n' % sys.argv[0]

    format = '%-15s %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
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):

    return GenericFilter.skip_file (self, dir, filename)
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.', canon_fsfs)
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',
    'libdecmumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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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;

};
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglets;

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;
}

CopyrightTaglet.java!
/*1-
7.;,?,C,G,K,O!;S"#QY$#*+%^WWXY-.
/01A
*2Y+$4\n
7806)+==+29<=+_BYDN-EGW67+29<-KYMO+29RURWG+-!YGW-[F^defge+k/l7m>nDoSpunstw\]}^_
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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>.
 */
public final String getName()
{
    return name;
}

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

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

/**
 * This method returns a \texttt{String} representation of this
 * \texttt{Permission} object. This is in the format:
 * \texttt{(' + getClass().getName() + ' + getName() + ' + getActions}
 * \texttt{ + ')'}.
 *
 * @return this object as a \texttt{String}
 */
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

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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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* m4/ax_func_gethostbyname_r.m4

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this
java/security/Permission;
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(Ljava/lang/Object;)V

! java/lang/System
"#getSecurityManager()
L java/lang/SecurityManager;
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Java/security/acl/Permission.java
SourceFile=Permission.java
16/gnu/javax/sound/AudioSecurityManager$Permission.java
16/gnu/javax/sound/AudioSecurityManager$Permission;
RECORDALLENUM$VALUES2gLgnu/javax/sound/AudioSecurityManager$Permission;<clinit
>()VCode
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
this$values4()[Lgnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'()
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
.)-5(Ljava/lang/Class;Ljava/lang/String;);Ljava/lang/Enum;
SourceFile=AudioSecurityManager.java
Signature=CLjava/lang/Enum<gnu/javax/sound/AudioSecurityManager$Permission;>:InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@

eAYYYYYSYSYS
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$Permission * > * ENUM$VALUES;

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

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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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.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore
@node Copying
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\v
\v Escape single quotes in literal strings from groff's Unicode transform.
.ie `n(g .ds Aq \a"
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fudge factors for nroff and troff

simple accents for nroff and troff
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)\h'|\n: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'|\n:u'
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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, "\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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Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostbyname_r.m4

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#
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#
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# 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 6.7
15100
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])\y
            '\|[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.
        '\(\s+\d+\s+\)\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).
'(\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 ('\s+|\s+|%+|//+|@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

---
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 (dir + ',
')


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',
        ])

.',f90',
.',go',
.',inc',
.',java',
)

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, 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 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 ('gntools')
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 ('lto-plugin')
# zlib is imported from upstream.

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

GCCCmdLine().main()
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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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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";
        }

        StringBuilder result = new StringBuilder(256);
        for (Tag t : tags) {
            result.append(t.getValue());
        }

        return result.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;
    }
}
}
}
if+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/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
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BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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/* 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.
 *<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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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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1 java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDUI

ConstantValue?\nWQ~name$Ljava/lang/String;\n<init>(Ljava/lang/String;)V

Code

()V

LineNumberTableLocalVariableTablethis$Ljava/security/Permission;

checkGuard(Ljava/lang/Object;)V

! java/lang/System"#$getSecurityManager()Ljava/lang/SecurityManager;

%&'java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)Vobj$Ljava/lang/Object;sm$Ljava/lang/

SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()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

**+[]^
// 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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^L

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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 Crdilig (Regis.Cridlig@c1.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Petersen (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 Detlef(sdetlfs@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.)
@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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Local Variables:
ispell-local-pdict: "ispell-dict"
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+ Cl\(-1v\h'\-1p\'s-2+h'\-1p+'\s\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\}
\e0\{
    \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
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\n\n%	"\$2"
..  nr % 0
  rr F
}
.ie `{\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  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #f1
  ds #] MP
```

```
.if t `{\n  ds #H ((1-\n(.fu%2u))*.13m)
  ds #V .6m
  ds #F 0
  ds #[ \&
  ds #] \&
```

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

```
.if t `{\n  ds ` \k:-(\n(.wu*8/10-{(#H)}\n\n}:u`''
  ds ` \k:-(\n(.wu*8/10-{(#H)}\n\n}:u'
  ds ^ \k:-(\n(.wu*10/11-{(#H)}\n\n}:u'
  ds ` \k:-(\n(.wu*8/10-{(#H)}\n\n}:u''
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.

.if n .ad 1

.nh

.SH "NAME"

gpl \- GNU General Public License

.SH "DESCRIPTION"

.IX Header "DESCRIPTION"

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/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscore, 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)(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)\nif ((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)\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

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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
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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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This is the Debian GNU/Linux prepackaged version of util-linux.

This package was put together by Guy Maor <maor@debian.org> and later maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk <bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: git://git.debian.org/~lamont/util-linux.git

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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
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a8a045db233418dd73fbe 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
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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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)
Optimised ANSI C code for the Rijndael cipher (now AES)

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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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1.332 libwrap0:amd64 7.6.q :25

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1.339 libxi6:amd64 2:1.7.6 :1

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1.341 libxmlsec1 1.2.20 :2ubuntu4

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

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2001-12-12

from http://junit.org/

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agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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Hope this helps.

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

---------------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
---------------------------------------------------------------------------

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER
This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- `CONFIG_HOTPLUG` - Support for hot-pluggable devices
- `CONFIG_MODULES` - Enable loadable module support
- `CONFIG_KMOD` - Automatic kernel module loading
- `CONFIG_FW_LOADER` - Hotplug firmware loading support
- `CONFIG_I2C` - I2C support
- `CONFIG_VIDEO_DEV` - Video For Linux
- `CONFIG_SOUND` - Sound card support
Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS - OSS Mixer API
- CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.

Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

### 2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

### 3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)
The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
</tbody>
</table>
If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```plaintext
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```plaintext
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```plaintext
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.
Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a
pointer to this structure. The driver will return the current
dparameters with any necessary changes to conform to the limitations of
the hardware or current compression mode. Any or all fields can be set
to zero to request a reasonable default value. If the driver is not
set to MPEG format, the EINVAL error code will be returned. When I/O
is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32                        The maximum number of frames in each
gop_size                   Group Of Pictures; i.e. the maximum
                        number of frames minus one between
each key frame.

__u32                        The maximum number of sequential
max_b_frames               bidirectionally-predicted frames.
                        (B-frames are not yet supported.)

enum go7007_aspect_ratio     The aspect ratio to be encoded in the
aspect_ratio               meta-data of the compressed format.
                        Choices are:
                        GO7007_ASPECT_RATIO_1_1
                        GO7007_ASPECT_RATIO_4_3_NTSC
                        GO7007_ASPECT_RATIO_4_3_PAL
                        GO7007_ASPECT_RATIO_16_9_NTSC
                        GO7007_ASPECT_RATIO_16_9_PAL

__u32                        Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP       Only produce self-contained GOPs, used
to produce streams appropriate for
random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when
the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl
with a pointer to a struct go7007_mpeg_params. If the driver is not
set to MPEG format, the EINVAL error code will be returned.
To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```c
enum go7007_mpeg_video_standard
    mpeg_video_standard        The MPEG video standard in which to compress the video.

    GO7007_MPEG_VIDEO_MPEG1
    GO7007_MPEG_VIDEO_MPEG2
    GO7007_MPEG_VIDEO_MPEG4

    __u32                        Bit-wise OR of control flags (below)
    flags

    __u32                        The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream.
    pali

    GO7007_MPEG2_PROFILE_MAIN_MAIN

    GO7007_MPEG4_PROFILE_S_L0
    GO7007_MPEG4_PROFILE_S_L1
    GO7007_MPEG4_PROFILE_S_L2
    GO7007_MPEG4_PROFILE_S_L3
    GO7007_MPEG4_PROFILE_ARTS_L1
    GO7007_MPEG4_PROFILE_ARTS_L2
    GO7007_MPEG4_PROFILE_ARTS_L3
    GO7007_MPEG4_PROFILE_ARTS_L4
    GO7007_MPEG4_PROFILE_AS_L0
    GO7007_MPEG4_PROFILE_AS_L1
    GO7007_MPEG4_PROFILE_AS_L2
    GO7007_MPEG4_PROFILE_AS_L3
    GO7007_MPEG4_PROFILE_AS_L4
```
Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

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Installing the WIS PCI Voyager Driver
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The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any
order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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1.353 linux-image-4.4.0-141-generic 4.4.0

:141.167

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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, 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)
* 10/6/97 - began heavy inline documentation of the code. Corrected typos
  *and spelling mistakes.
* 10/7/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *     combined, allow nicstar_free_rx_skb to be called to
  *     recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.

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*
* M. Welsh, 6 July 1996
*
*
*/

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{
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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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 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.

(If you think you should be in this list, but you are not, drop a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
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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.
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* 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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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.)

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

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

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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

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for all the work for the FlexCopII chipset by B2C2,Inc.

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

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

(If you think you should be in this list, but you are not, drop a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstarp() 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
|| strcmp(license, "Dual MIT/GPL") == 0
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#endif

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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 the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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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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/* 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
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* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
*
*/

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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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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
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for the nxt2002 frontend driver

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single nxt200x frontend driver.

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Video4Linux interface and 2.1.x kernel adaptation

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Ragnar Hojlund Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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

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single nxt200x frontend driver.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStar PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
   * 1) skb->destructor / skb->atm.recycle_buffer
   * combined, allow nicstar_free_rx_skb to be called to
   * recycle large data buffers
   * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
* */

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Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON  
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for the or51211 and or51132 frontend drivers, and
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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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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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c) If distribution of the work is made by offering access to copy
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d) 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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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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for his work on the initial Linux DVB driver
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Ralph Metzler <rjkm@metzlerbros.de>
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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 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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line to the DVB mailing list)
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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);
}
```

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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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1.355 linux-libc-dev 4.4.0 :141.167

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Linus Torvalds

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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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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 merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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    return (strcmp(license, "GPL") == 0
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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);
}
#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.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*/

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1.356 locales 2.23 :0ubuntu10

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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

1.357 login 1:4.2 :3.1ubuntu5.3
1.357.1 Available under license :

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closely. It can save you and me some grief.

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   joey@debian.org, do not cc or bounce a mail, send a plain mail,
   not copied to any mailing list or the BTS) and ask about the
   status of the bug you are considering to work on.

2. In this mail include all information relevant for this problem,
   i.e. include a description of the bug and not only its bug
   number.

3. If the maintainer is not able or willing to fix the problem or
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4. Work on the bug and prepare a patch. Do not upload into the
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These rules always apply. They even apply if somebody declares NMUs as ok and reduces regular NMU rules to a delay of zero days. Unless I’m on vacation or on a show I am reachable via mail, so there is hardly a reason not to contact me.

1.364 manpages-dev 4.04 :2

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#!/usr/bin/python3
#

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'],
    },
    {
        # This shortname is not defined by the standard.
        'shortname': 'freely-redistributable',
        'filename': 'freely-redistributable',
        'upstream_names': ['FREELY_REDISPONIBLE'],
    },
    {
        'shortname': 'GPL-2',
        'filename': 'GPL-2',
}
'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
],
{
'shortname': 'GPL-2+',
'filename': 'GPL-2+',
'upstream_names': ['GPL_NOVERSION_ONELINE', 'GPLv2+',
  'GPLv2+_DOC_FULL', 'GPLv2+_DOC_MISC',
  'GPLv2+_DOC_ONEPARA', 'GPLv2+_SW_3_PARA',
  'GPLv2+_SW_ONEPARA'],
],
{
# This shortname is not defined by the standard.
'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):
  '''Get 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:
    licenses_with_manpages = {}
    symlinks = {}
    
    def get_license_shortname(name):
      '''Get 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:\n", 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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3. If the maintainer is not able or willing to fix the problem or does not respond within four days, continue with step 4.

4. Work on the bug and prepare a patch. Do not upload into the Debian archive.

5. Send the entire patch, together with enough explanations, to the maintainer for reviewing and ask him for permission of an NMU using this patch.

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man3/CIRCLEQ_INSERT_AFTER.3 man3/CIRCLEQ_INSERT_BEFORE.3
man3/CIRCLEQ_INSERT_HEAD.3 man3/CIRCLEQ_INSERT_TAIL.3
man3/CIRCLEQ_REMOVE.3 man3/LIST_EMPTY.3 man3/LIST_ENTRY.3
man3/LIST_FIRST.3 man3/LIST_FOREACH.3 man3/LIST_HEAD.3
man3/LIST_HEAD_INITIALIZER.3 man3/LIST_INIT.3
man3/LIST_INSERT_AFTER.3 man3/LIST_INSERT_BEFORE.3
man3/LIST_INSERT_HEAD.3 man3/LIST_NEXT.3 man3/LIST_REMOVE.3
man3/SLIST_EMPTY.3 man3/SLIST_ENTRY.3 man3/SLIST_FIRST.3
man3/SLIST_FOREACH.3 man3/SLIST_HEAD.3 man3/SLIST_HEAD_INITIALIZER.3
man3/SLIST_INIT.3 man3/SLIST_INSERT_AFTER.3 man3/SLIST_INSERT_HEAD.3
man3/SLIST_NEXT.3 man3/SLIST_REMOVE.3 man3/SLIST_REMOVE_HEAD.3
man3/TAILQ_CONCAT.3 man3/STAILQ_EMPTY.3 man3/STAILQ_ENTRY.3
man3/STAILQ_HEAD_INITIALIZER.3 man3/STAILQ_INIT.3
man3/STAILQ_INSERT_AFTER.3 man3/STAILQ_INSERT_HEAD.3
man3/STAILQ_INSERT_TAIL.3 man3/STAILQ_REMOVE.3
man3/TAILQ_CONCAT.3 man3/STAILQ_EMPTY.3 man3/STAILQ_ENTRY.3
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man3/TAILQ_NEXT.3 man3/TAILQ_PREV.3 man3/TAILQ_REMOVE.3
man3/TAILQ_SWAP.3 man3/forkpty.3 man3/getloadavg.3 man3/login_tty.3
man3/openpty.3 man3/queue.3 man7/operator.7 man7/symlink.7

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1.365 mawk 1.3.3-17ubuntu2

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1.366 mime-support 3.59ubuntu1

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1.367 mount 2.27.1 :6ubuntu3.6

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The current maintainer is LaMont Jones <lamont@debian.org>. See also: git://git.debian.org/~lamont/util-linux.git

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

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device   Boot Start   End Sectors Size Id Type
<removed>1  2048  4095  2048  1M 83 Linux
<removed>2  4096 20479 16384  8M a5 FreeBSD

-------------------
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

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):
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</td>
<td>6144</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>8M</td>
<td>unused</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>
</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, June 1991

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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) \n && !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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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
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David Engel <david@elo.ods.com>. Michael Alan Dorman
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1.370 ncurses-bin 6.0+20160213 :1ubuntu1

1.370.1 Available under license:

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This package is used for testing builds of ncurses.

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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-- vile: txtmode file-encoding=utf-8
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 fc=72
-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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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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Files: doc/html/NCURSES-Programming-HOWTO.html
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-- vile: txtmode file-encoding=utf-8
This is the Debian prepackaged version of the ncurses
library and terminfo utilities. ncurses/terminfo was originally written
by Pavel Curtis and Zeyd M. Ben-Halim <zmbenhal@netcom.com>, and is
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 Braakman <dark@xs4all.nl>, James Troup
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1.372 net-tools 1.60 :26ubuntu1

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1.374 netcat-openbsd 1.105 :7ubuntu1
1.375 netfilter-persistent 1.0.4

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1. Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
3. Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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6. Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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11. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
13. Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
14. John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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16. Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. John Hay <jhay@@icomtek.csir.co.za> IPv6 support and testing
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20. Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
23. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
25. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
32. David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/ODEtics; audio clock drivers: CHU, WWV/H, IRIG
33. Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
34. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
36. Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
38. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/subdirectory
43. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. Michael Shields <shields@tembel.org> USNO clock driver
45. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
47. Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
49. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
50. Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime
51. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD.

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

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

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

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

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**1.378 open-vm-tools 2:10.2.0:**

:3~ubuntu0.16.04.1

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp /
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>>> unicode-5.0

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#
# Version
#
# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings
# 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
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filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
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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 */
";
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
     */
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);

/**
 * 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.
* &lt;li&gt;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.
* &lt;/ul&gt;
* *
* {\@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
* 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:
* *
* &lt;pre&gt;
* perm1 = new FilePermission(p1,"read,write");
* perm2 = new FilePermission(p2,"write,read");
* &lt;/pre&gt;
* *
* 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 HasTable,
 * 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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1998-05-11
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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
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni
# Search Sequences

```text
sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jpbsd=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

```text
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/DejaVuLGC Serif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-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 =
        "/*
         * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n         * */
    ;

    private static final String ORACLE_AFTER2012 =
        "/*
         * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.\n         * */
    ;

    private static final String UNICODE =
        "/*
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 * questions.
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 * or visit www.oracle.com if you need additional information or have any questions.
 */

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private CopyrightHeaders() {
    
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    # modification, are permitted provided that the following conditions
    # are met:
    
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    #
    platform=bsd

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     * accompanied this code).
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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*
* Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
* or visit www.oracle.com if you need additional information or have any
* questions.
*/
import java.rmi.Remote;
public interface Legal extends Remote {};

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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.
* <p>@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.
 * <P>
 * 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.
 *  
 * 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
 * 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();
    return String.format("(" + className + "," + name + "," + actions + ")");
}
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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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 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.
* <p> @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.
 * <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);

/**
 * 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
 * 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
 * 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.
 */

class 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 +
                " plan " + 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.
     *
     * @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
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
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.Currency;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " */\n"
    private static final String ORACLE_AFTER2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " */\n"
    private static final String ORACLE2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " */\n"
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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 */

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 */
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public interface Legal extends Remote {
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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();
    }
}

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#ifndef HAVE_SETREGID
int setreggid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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#ifndef COMPAT_POLL_H_
#define COMPAT_POLL_H_

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL && !defined(HAVE_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 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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*/

#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>)

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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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/* 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 POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRERR 0x0008
#define POLLRHUP 0x0010
#define POLLNVAL 0x0020
#endif
#endif
#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 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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 */

#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)
#endif
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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_

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 POLLRD NORM 0x0040
#define POLLNORMPOLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLRWBAND 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 */
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It is split out from the main package to isolate the dependency on the
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);

/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */
/*

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

*/

#include <sys/param.h>

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#else
define HAVE_WAITPID
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

/* Define required functions to mimic a POSIX look and feel */
define _W_INT(w) (*(int *)&(w))
define WIFEXITED(w) (!$(_W_INT(w)) & 0377)
define WIFSTOPPED(w) ($(_W_INT(w)) & 0100)
#endif

*/

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*/

#ifndef BSD_WAITPID_H
#define BSD_WAITPID_H
#endif

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
/* Prototype */

#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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1.382 openssh-sftp-server 1:7.2p2
:4ubuntu2.6

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 */
/*
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif /* !_HAVE_WAITPID */
/* Clean out any potential issues */
#define HAVE_WAITPID

#ifndef 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 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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#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 */

#ifndef COMPAT_POLL_H_
#define COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

#endif */

// Open Source Used In Ultra Services Platform Version 6.7
17293
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 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 */
 * 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)((WIFSIGNALED(w) ? (_W_INT(w) >> 8) & 0377) : -1)
 * define WTERMSIG(w)((WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
 * define WCOREFLAG0x80
 * 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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(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
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/ *
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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 int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNDNM0x0040
#define PONORMPOLLRDNDNM
#define POLLWRNORM POLLOUT
#define POLLRDND0x0080
#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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 */

#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 WIFSTOPTED
 #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 WIFSTOPTED(w)((_W_INT(w)) & 0100)
 #define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPTED(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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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
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```
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```

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```
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```
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<signature of Ty Coon>, 1 April 1989
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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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ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
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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
  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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  version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.389 perl-base 5.22.1 :9ubuntu0.6
1.389.1 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
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,'"
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:
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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

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<one line to give the program’s name and a brief idea of what it does.>  
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when it starts in an interactive mode:

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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
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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
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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,})\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;

---
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
metaSpec:
  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

1.390 perl-modules-5.22 5.22.1 :9ubuntu0.6

1.390.1 Available under license:
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author:
 - 'Ken Williams <kwilliams@cpan.org>
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
built_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
 generated_by: 'Module::Build version 0.3608'
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!perl

copyright.t

copyright.t

=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 =~ /\((\d{4,})\)/
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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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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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1.2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
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  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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<signature of Ty Coon>, 1 April 1989
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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

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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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 C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { 
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = " ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/ 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 =~ /\b\d{4,}\b/ 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\nModule-Build mailing list at <module-
bUILD@perl.org>."'
buildRequires:
  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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1.391 procps 2:3.3.10 :4ubuntu2.4

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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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1.392 python 2.7.12 :1~16.04
1.392.1 Available under license :
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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.

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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dh_python2, pycompile, pyclean and debpython module:
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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. Breitrup <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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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
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1.393 python-amqp 1.4.9-1

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1.400 python-celery 3.1.20-1

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1.403 python-cliff 1.15.0-2ubuntu2
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1.404 python-cmd2 0.6.8-1

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1.405 python-concurrent.futures 3.0.5-1

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Last updated: 2009-02-28

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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 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
> 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
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?

```
======================================================================
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
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.
>
> --- 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>
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.

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==
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==

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
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_Intellectual Property and Open Source: A Practical Guide
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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
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with the following notice?

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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
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
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.
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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.
===================================================================

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--amk (www.amk.ca)

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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?
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
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
> 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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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 text 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?

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 C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 F3E8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Jeethu Rao

--00e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256=
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.

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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.
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

-- Jeethu Rao

-----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
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.
   =======================================================================

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)

iQCVAwUBSSnnI8UnN8n93LBAQLp/gQAh7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FekthDDzxcgc5580MGGeeX/9Yn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/fI6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1IjBcZ
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").

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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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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
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=
Python library.

> 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)
iQCVAwUBSawJbnEjvBPtnXfVAVQLZigP/ecG+JdZwNvPJRtsa6rhY6+MHLDHl6agk
evkJnSJQAcVHIzVVeR51XgvDUMakZjU4SOV7MqkhsKA9lle7PaD9VSYg3na5
gElw2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+dZohwHkeFBjwDRA3wltOrH7
SK4w9VBJtfY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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?
> 
> =$=3D$
> =3DQduY

Open Source Used In Ultra Services Platform Version 6.7
18172
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.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCFqMYYuVODvIllyLg0hgc9LAbQ
SH8AoLJgaq1li7ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
Hi Andrew,

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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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).

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

--amk (www.amk.ca)
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)
iEYEARECAAYFAkko52IACgkQH6D4d+eAS0XPPPQCFcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33aZjkeYJaTbzEqImOEW8JGpf
=ABE
-----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 dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@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: 2631
Hi Paul,

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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?

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

Regards,
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)
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-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:message-id:subject:from:date:to:cc:content-type:content-transfer-encoding;
  b=jze7KSMkUGiilVCKXKXaaXMl5NaTgdMgQtV3ZflRNYG4sSy68xO2sxfjyyig3EfT6Nv6
  Q3opUMsT6Q6q72Ndzd3NwjeEWJnG3xcl7RQu/mXPf8AzP3CeF4L
  lornJLMl1eQ2XyYuZA73jem+SJtfdUHcSD1Uhgl=
DomainKey-Signature: a=rsa-sha1; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:message-id:subject:from:date:to:cc:content-type:content-transfer-encoding;
b=gyTqkRhIHlAdFDKIZCBwsRbnMNVDq1PWJhyC0ExxPskaor3HR96MWQNBnPu40Ac
  Vn55qIlqTd0m4e9zlUE6MwZo9kqj/Qw0L/SLi6b0D1QeNqo/eHYqPmuVsw1tAYwNAyFY
  Y9++76rPGqYdALSfsvmwwv7Q3/bEmjVTrtQE=
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=
> 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:
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>   >>
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>   >
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--amk (www.amk.ca)

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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.

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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
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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Regards,

Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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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
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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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Open Source Used In Ultra Services Platform Version 6.7

18187
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</tr>
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<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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########################################################
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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
# requested that this message be sent to:-
#   crypt@bis.doc.gov
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# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
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# CAUTION: while the message may well be from the sender
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# has NOT been authenticated by this service
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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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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.
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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2.0.1    2.0+1.6.1 2001  PSF      yes
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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1.408 python-debtcollector 1.3.0-2

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1.409 python-defusedxml 0.4.1
:2ubuntu0.16.04.1

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1.410 python-deltarpm 3.6+dfsg :1build4

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+++ b/docutils/writers/s5_html/themes/default/iepngfix.htc
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@@ -4,7 +4,7 @@
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1.413 python-flask 0.10.1 :2build2

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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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1.416 python-glanceclient 1:2.0.0-2ubuntu0.16.04.1

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1.417 python-iniparse 0.4-2.2

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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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Upstream-Name: python-json-patch
Source: git://github.com/stefankoegl/python-json-patch.git

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- Source: git://github.com/stefankoegl/python-json-pointer.git

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1.425 python-keyring 7.3-1ubuntu1

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1.432 python-mailer 0.7-1.1

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1.433 python-markupSafe 0.23 :2build2

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1.434 python-memcache 1.57-1

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Julian Seward, Cambridge, UK.
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1.435 python-minimal 2.7.12 :1~16.04

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1.439 python-netaddr 0.7.18-1

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1.441 python-neutronclient 1:4.1.1-2ubuntu1

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1.445 python-oslo.i18n 3.5.0-2

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1.447 python-oslo.utils 3.8.0-2

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1.448 python-paramiko 1.16.0 :1ubuntu0.2

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Version 2.1, February 1999
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1.449 python-pbr 1.8.0-4ubuntu1

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1.450 python-pkg-resources 20.7.0 :1

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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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1.459 python-requestsexceptions 1.1.2-
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1.460 python-roman 2.0.0 :2

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

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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
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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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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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1.462 python-setuptools 20.7.0 :1

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PSF

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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1.463 python-simplejson 3.8.1-1ubuntu2

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1.466 python-sqlitecachec 1.1.4-1

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1.467 python-stevedore 1.12.0-1

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1.469 python-unicodecsv 0.14.1-1
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1.470 python-urlgrabber 3.9.1 :4.2ubuntu1

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**1.471 python-urllib3 1.13.1 :2ubuntu0.16.04.2**

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# Contributions to the urllib3 project

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In chronological order:

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* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
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  * Support for explicitly closing pooled connections

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.474 python-wrapt 1.8.0-5build2

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1.475 python-yaml 3.11 :3build1

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1.476 python2.7 2.7.12 :1ubuntu0~16.04.4
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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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| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |</p>
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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
    ghost@aladdin.com

    Independent implementation of MD5 (RFC 1321).

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text is available at
    http://www.ietf.org/rfc/rfc1321.txt

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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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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
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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `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
----------------------------

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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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zlib

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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
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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)
or init_by_array(init_key, key_length).

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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 <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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zlib
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The :mod:`zlib` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build::

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*******************
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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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| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
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| 2.1.3          | 2.1.2        | 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)
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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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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 <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
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- Arguments more compliant with Python standard
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--------------------------

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

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strtod and dtoa

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

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1.481 python3-cffi-backend 1.5.2 :1ubuntu1

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1.482 python3-chardet 2.3.0 :2

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1.486 python3-gi 3.20.0 :0ubuntu1

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1.487 python3-idna 2.0 :3

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1.488 python3-jinja2 2.8 :1

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1.489 python3-json-pointer 1.9 :3

1.489.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-json-pointer
Source: git://github.com/stefankoeogl/python-json-pointer.git

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1.490 python3-jsonpatch 1.19 :3

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1.491 python3-jwt 1.3.0 :ubuntu0.1
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Upstream-Name: PyJWT
Upstream-Contact: Jos Padilla <hello@jpadilla.com>
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1.492 python3-markupsafe 0.23 :2build2

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1.493 python3-minimal 3.5.1 :3
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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.

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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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
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# Contributions to the urllib3 project

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## Contributors

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* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSCConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSCConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from \``HTTPResponse.stream()``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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Upstream-Name: urllib3
Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
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1.502 python3.5 3.5.2 :2ubuntu0~16.04.5e...

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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
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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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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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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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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
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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:
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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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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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

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

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
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 Project, http://www.wide.ad.jp/. ::

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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:
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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 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

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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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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/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/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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===============

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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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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.cnr.rieston.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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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

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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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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 from http://www.netlib.org/fp/. The original file, as retrieved on
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zlib
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jloup@gzip.org

Mark Adler  
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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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

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 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).

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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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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Select kqueue

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

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SipHash24

-------

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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)

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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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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LICENCE

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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_link, "_acl_delete_link", "%s("%s", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_set_link, "_acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semct, "_semct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "_syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysct, "_sysct", NULL, print_sysct, 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", "%s(%#x, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__break, "break", NULL, NULL, NULL },
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{ 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 },
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{ TARGET_FREEBSD_NR__dup2, "dup2", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR__exeve, "exeve", NULL, 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(%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 }
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{ 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_readdir, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rerecvfrom, "recvfrom", NULL, 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_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NRḏsetfsgid, "setfsgid", 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_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsig, "setsign", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsocket", 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_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", "NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signore, "signore", "NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signore, "signore", "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",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%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_wait, "thr_wait", "%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_umount, "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_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_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_getgids 46
/* 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_advise 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_mmincore 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_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 getrlimit */
/* 145 is old setrlimit */
/* 146 is old killp */
#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 getdirent */
#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_sem.sys 169
#define TARGET_FREEBSD_NR_msg.sys 170
#define TARGET_FREEBSD_NR_shm.sys 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_lstat 189
#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___libc_fseek 199
#define TARGET_FREEBSD_NR___libc_ftruncate 200
#define TARGET_FREEBSD_NR___libc_f truncate 201
#define TARGET_FREEBSD_NR___libc_mlock 203
#define TARGET_FREEBSD_NR___libc_munlock 204
#define TARGET_FREEBSD_NR___libc_undelete 205
#define TARGET_FREEBSD_NR___libc_futimes 206
#define TARGET_FREEBSD_NR___libc_getpgrp 207
#define TARGET_FREEBSD_NR___libc_poll 209
#define TARGET_FREEBSD_NR___libc_freebsd7__semctl 220
#define TARGET_FREEBSD_NR___libc_semget 221
#define TARGET_FREEBSD_NR___libc_semop 222
#define TARGET_FREEBSD_NR___libc_freebsd7__msgctl 224
#define TARGET_FREEBSD_NR___libc_msgget 225
#define TARGET_FREEBSD_NR___libc_msgrcv 226
#define TARGET_FREEBSD_NR___libc_msgcvt 227
#define TARGET_FREEBSD_NR___libc_shmat 228
#define TARGET_FREEBSD_NR___libc_freebsd7__shmctl 229
#define TARGET_FREEBSD_NR___libc_shmctl 230
#define TARGET_FREEBSD_NR___libc_shmget 231
#define TARGET_FREEBSD_NR___libc_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_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_kldevent 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__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___setgid 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_statfs 396
#define TARGET_FREEBSD_NR_fhstatfs 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___acl_get_link 415
#define TARGET_FREEBSD_NR___acl_set_link 416
#define TARGET_FREEBSD_NR___acl_delete_link 417
#define TARGET_FREEBSD_NR___acl_aclcheck_link 418
#define TARGET_FREEBSD_NR_sigwait 419
#define TARGET_FREEBSD_NR_thr_create 420
#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   440
#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_auditchtl  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_rtprio_thread 465
#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_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_renamenat 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
/* System call numbers. */

#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_sigsuspend 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_munmap 64
#define TARGET_OPENBSD_NR_mprotect 65
#define TARGET_OPENBSD_NR_madvise 66
#define TARGET_OPENBSD_NR_mincore 67
#define TARGET_OPENBSD_NR_getgroups 68
#define TARGET_OPENBSD_NR_setgroups 69
#define TARGET_OPENBSD_NR_getpgrp 70
#define TARGET_OPENBSD_NR_setpgid 71
#define TARGET_OPENBSD_NR_setitimer 72
#define TARGET_OPENBSD_NR_getitimer 73
#define TARGET_OPENBSD_NR_dup2 74
#define TARGET_OPENBSD_NR_fcntl 75
#define TARGET_OPENBSD_NR_select 76
#define TARGET_OPENBSD_NR_fsync 77
#define TARGET_OPENBSD_NR_setpriority 78
#define TARGET_OPENBSD_NR_socket 79
#define TARGET_OPENBSD_NR_connect 80
#define TARGET_OPENBSD_NR_getpriority 81
#define TARGET_OPENBSD_NR_sigreturn 82
#define TARGET_OPENBSD_NR_bind 83
#define TARGET_OPENBSD_NR_setsockopt 84
#define TARGET_OPENBSD_NR_listen 85
#define TARGET_OPENBSD_NR_gettimeofday 86
#define TARGET_OPENBSD_NR_getrusage 87
#define TARGET_OPENBSD_NR_getsockopt 88
#define TARGET_OPENBSD_NR_readv 89
#define TARGET_OPENBSD_NR_writev 90
#define TARGET_OPENBSD_NR_settimeofday 91
#define TARGET_OPENBSD_NR_gettimeofday 92
#define TARGET_OPENBSD_NR_getrusage 93
#define TARGET_OPENBSD_NR_getsockopt 94
#define TARGET_OPENBSD_NR_readv 95
#define TARGET_OPENBSD_NR_writev 96
#define TARGET_OPENBSD_NR_settimeofday 97
#define TARGET_OPENBSD_NR_getrusage 98
#define TARGET_OPENBSD_NR_getsockopt 99
#define TARGET_OPENBSD_NR_readv 100
#define TARGET_OPENBSD_NR_writev 101
#define TARGET_OPENBSD_NR_settimeofday 102
#define TARGET_OPENBSD_NR_getrusage 103
#define TARGET_OPENBSD_NR_getsockopt 104
#define TARGET_OPENBSD_NR_readv 105
#define TARGET_OPENBSD_NR_writev 106
#define TARGET_OPENBSD_NR_settimeofday 107
#define TARGET_OPENBSD_NR_getrusage 108
#define TARGET_OPENBSD_NR_getsockopt 109
#define TARGET_OPENBSD_NR_readv 110
#define TARGET_OPENBSD_NR_writev 111
#define TARGET_OPENBSD_NR_settimeofday 112
#define TARGET_OPENBSD_NR_getrusage 113
#define TARGET_OPENBSD_NR_getsockopt 114
#define TARGET_OPENBSD_NR_readv 115
#define TARGET_OPENBSD_NR_writev 116
#define TARGET_OPENBSD_NR_settimeofday 117
#define TARGET_OPENBSD_NR_getrusage 118
#define TARGET_OPENBSD_NR_getsockopt 119
#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_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_getdirentries 196
#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_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgrp 207
#define TARGET_OPENBSD_NR_xfs_ioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgrcv 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_getpeerid       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_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_EMMSGSIZE 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_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_EEMEDIUMTYPE 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_compat_43_olseek 19
#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_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_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_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_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_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_nanosleep 239
#define TARGET_NETBSD_NR_fdatasync 240
#define TARGET_NETBSD_NR_mlockall 241
#define TARGET_NETBSD_NR_munlockall 242
#define TARGET_NETBSD_NR___sigtimedwait 243
#define TARGET_NETBSD_NR_modctl 244
#define TARGET_NETBSD_NR__ksem_init 245
#define TARGET_NETBSD_NR__ksem_open 246
#define TARGET_NETBSD_NR__ksem_unlink 247
#define TARGET_NETBSD_NR__ksem_close 248
#define TARGET_NETBSD_NR__ksem_post 249
#define TARGET_NETBSD_NR__ksem_wait 250
#define TARGET_NETBSD_NR__ksem_trywait 251
#define TARGET_NETBSD_NR__ksem_getvalue 252
#define TARGET_NETBSD_NR__ksem_destroy 253
#define TARGET_NETBSD_NR_mq_open 254
#define TARGET_NETBSD_NR_mq_close 255
#define TARGET_NETBSD_NR_mq_unlink 256
#define TARGET_NETBSD_NR_mq_getattr 257
#define TARGET_NETBSD_NR_mq_setattr 258
#define TARGET_NETBSD_NR_mq_notify 259
#define TARGET_NETBSD_NR_mq_send 260
#define TARGET_NETBSD_NR_mq_receive 261
#define TARGET_NETBSD_NR_mq_timedsend 262
#define TARGET_NETBSD_NR_mq_timedreceive 263
#define TARGET_NETBSD_NR___posix_rename 264
#define TARGET_NETBSD_NR_swapctl 265
#define TARGET_NETBSD_NR_compat_30_getdents 266
#define TARGET_NETBSD_NR_minherit 267
#define TARGET_NETBSD_NR_lchmod 268
#define TARGET_NETBSD_NR_lchown 269
#define TARGET_NETBSD_NR_lutimes 270
#define TARGET_NETBSD_NR___msync13 271
#define TARGET_NETBSD_NR_compat_30___stat13 272
#define TARGET_NETBSD_NR_compat_30___fstat13 273
#define TARGET_NETBSD_NR_compat_30___fstat13 274
#define TARGET_NETBSD_NR_swapctl 275
#define TARGET_NETBSD_NR_lchmod 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___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_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 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_____semctl13 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_sigtamp 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__fasync_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_fstatvfs1 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_lremovexattr 381
#define TARGET_NETBSD_NR_fremovexattr 382
#define TARGET_NETBSD_NR_removexattr 383
#define TARGET_NETBSD_NR_lremovexattr 384
#define TARGET_NETBSD_NR_fremovexattr 385
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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.dfs.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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*
*   @(#)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

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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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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
```c
#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_oid 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getppid 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_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_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_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_sigsuspend13 52
#define TARGET_NETBSD_NR_compat_13_sigtosigstack13 53
#define TARGET_NETBSD_NR_ioct1 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_readlink 57
#define TARGET_NETBSD_NR_execve 58
#define TARGET_NETBSD_NR_umask 59
#define TARGET_NETBSD_NR_chroot 60
#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
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/*
 * FreeBSD strace list
 *
 */

* 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_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_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_ffcntl, "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_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", 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 },
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{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%"sv")", 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_Lmadvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Lmincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Lminherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Nmkdir, "mkdir", "%s("%s",%#o)"%, NULL, NULL },
{ TARGET_FREEBSD_NR_Nmkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Nmknode, "mknode", "%s("%s",%#o,%#x)"%, NULL, NULL },
{ TARGET_FREEBSD_NR_Nmlock, "mlock", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_Nptrace, "ptrace", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_Nquotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Nread, "read", "%s(%d,%#x,%d)"%, NULL, NULL },
{ TARGET_FREEBSD_NR_Nreadlink, "readlink", "%s("%s",%p,%d)"%, NULL, NULL },
{ TARGET_FREEBSD_NR_Nreadv, "readv", NULL, NULL, NULL },

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{ 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 },
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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 },
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{ 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_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\",\"\%p\")", NULL, NULL },
{ TARGET_FREEBSD_NR_stats, "stats", "%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_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_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_geteuid 24
#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 mmmap */
#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_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_mkdir 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 gethostname */
 /* 144 is old getrusage */
 /* 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 getdirent */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_igetfh 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_freebsd4_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_freebsd6_ftruncate 175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_freebsd6_setfib   178
#define TARGET_FREEBSD_NR_freebsd6_setegid 182
#define TARGET_FREEBSD_NR_freebsd6_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_getrlimit 191
#define TARGET_FREEBSD_NR_freebsd6_mmap 192
#define TARGET_FREEBSD_NR___syscall 193
#define TARGET_FREEBSD_NR_getdirentries 194
#define TARGET_FREEBSD_NR_freebsd6_lseek 195
#define TARGET_FREEBSD_NR_freebsd6_truncate 196
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_mlock 199
#define TARGET_FREEBSD_NR_munlock 200
#define TARGET_FREEBSD_NR_undelete 201
#define TARGET_FREEBSD_NR_futimes 202
#define TARGET_FREEBSD_NR_freebsd6_mlock 203
#define TARGET_FREEBSD_NR_freebsd6_munlock 204
#define TARGET_FREEBSD_NR_getgid 205
#define TARGET_FREEBSD_NR_poll 206
#define TARGET_FREEBSD_NR_freebsd6_msgct 207
#define TARGET_FREEBSD_NR_msgsnd 208
#define TARGET_FREEBSD_NR_msgctl 209
#define TARGET_FREEBSD_NR___semcl 210
#define TARGET_FREEBSD_NR_semget 211
#define TARGET_FREEBSD_NR_semop 212
#define TARGET_FREEBSD_NR_freebsd6_msgct 213
#define TARGET_FREEBSD_NR_msgct 214
#define TARGET_FREEBSD_NR_freebsd7_shmct 215
#define TARGET_FREEBSD_NR_msgsnd 216
#define TARGET_FREEBSD_NR_freebsd6_shmct 217
#define TARGET_FREEBSD_NR_freebsd6_shmat 218
#define TARGET_FREEBSD_NR_freebsd6_shmget 219
#define TARGET_FREEBSD_NR_freebsd6_shmctl 220
#define TARGET_FREEBSD_NR_freebsd6_shmdt 221
#define TARGET_FREEBSD_NR_freebsd6_shmct 222
#define TARGET_FREEBSD_NR_freebsd6_shmget 223
#define TARGET_FREEBSD_NR_freebsd6_shmctl 224
#define TARGET_FREEBSD_NR_freebsd6_shmct 225
#define TARGET_FREEBSD_NR_freebsd6_shmget 226
#define TARGET_FREEBSD_NR_freebsd6_shmctl 227
#define TARGET_FREEBSD_NR_freebsd6_shmct 228
#define TARGET_FREEBSD_NR_freebsd6_shmct 229
#define TARGET_FREEBSD_NR_freebsd6_shmget 230
#define TARGET_FREEBSD_NR_freebsd6_shmct 231
#define TARGET_FREEBSD_NR_freebsd6_shmget 232
#define TARGET_FREEBSD_NR_freebsd6_shmct 233
#define TARGET_FREEBSD_NR_freebsd6_shmget 234
#define TARGET_FREEBSD_NR_freebsd6_shmct 235
#define TARGET_FREEBSD_NR_freebsd6_shmget 236
#define TARGET_FREEBSD_NR_freebsd6_shmct 237
#define TARGET_FREEBSD_NR_freebsd6_shmget 238
#define TARGET_FREEBSD_NR_freebsd6_shmct 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_lchown 274
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#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___acl_get_file 337
#define TARGET_FREEBSD_NR___acl_set_file 338
#define TARGET_FREEBSD_NR___acl_get_fd 339
#define TARGET_FREEBSD_NR___acl_set_fd 340
#define TARGET_FREEBSD_NR___acl_delete_file 341
#define TARGET_FREEBSD_NR___acl_delete_fd 342
#define TARGET_FREEBSD_NR___acl_aclcheck_file 343
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 344
#define TARGET_FREEBSD_NR___setugid 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_file 352
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 353
#define TARGET_FREEBSD_NR___acl_aclcheck_file 354
#define TARGET_FREEBSD_NR___setugid 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___setuid 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_proc 373
#define TARGET_FREEBSD_NR___mac_set_proc 374
#define TARGET_FREEBSD_NR___mac_get_proc 375
#define TARGET_FREEBSD_NR___mac_set_proc 376
#define TARGET_FREEBSD_NR___mac_get_proc 377
#define TARGET_FREEBSD_NR___mac_set_proc 378
#define TARGET_FREEBSD_NR___mac_get_proc 379
#define TARGET_FREEBSD_NR___mac_set_proc 380
#define TARGET_FREEBSD_NR___mac_get_proc 381
#define TARGET_FREEBSD_NR___mac_set_proc 382
#define TARGET_FREEBSD_NR___mac_get_proc 383
#define TARGET_FREEBSD_NR___mac_set_proc 384
#define TARGET_FREEBSD_NR___mac_get_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_uuuidgen 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_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_shm_open 467
#define TARGET_FREEBSD_NR_shm_unlink 468
#define TARGET_FREEBSD_NR_cpuset 469
#define TARGET_FREEBSD_NR_cpuset_setid 470
#define TARGET_FREEBSD_NR_cpuset_getid 471
#define TARGET_FREEBSD_NR_cpuset_getaffinity 472
#define TARGET_FREEBSD_NR_cpuset_setaffinity 473
#define TARGET_FREEBSD_NR_faccessat 474
#define TARGET_FREEBSD_NR_fchmodat 475
#define TARGET_FREEBSD_NR_ftruncate 476
#define TARGET_FREEBSD_NR_pwrite 477
#define TARGET_FREEBSD_NR_pread 478
#define TARGET_FREEBSD_NR_lseek 479
#define TARGET_FREEBSD_NR_truncate 480
#define TARGET_FREEBSD_NR_ftruncate 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_fchmodat 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: sycalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
  */
```c
#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
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segment 186
#define TARGET_OPENBSD_NR_lfs_segmentwait 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___syscnt     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_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_gettime 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_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_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___semctl 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR___semctl 296
#define TARGET_OPENBSD_NR___semctl 297
#define TARGET_OPENBSD_NR___semctl 298
#define TARGET_OPENBSD_NR___semctl 299
#define TARGET_OPENBSD_NR___semctl 300
#define TARGET_OPENBSD_NR___semctl 301
#define TARGET_OPENBSD_NR___semctl 302
#define TARGET_OPENBSD_NR___semctl 303
#define TARGET_OPENBSD_NR___semctl 304
#define TARGET_OPENBSD_NR___semctl 305
#define TARGET_OPENBSD_NR___semctl 306
#define TARGET_OPENBSD_NR___semctl 307
#define TARGET_OPENBSD_NR___semctl 308
#define TARGET_OPENBSD_NR___semctl 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis 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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*
* @(#)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 TARGETEINVAL 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 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_EMMSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_ENOPROTO unsupported 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_ENOTCONN 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_ENOMEDIUM 83 /* No medium found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUMTYPE 85 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#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 */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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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
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/*
 * 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_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
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/* FreeBSD strace list */

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TARGET_FREEBSD_NR__acl_set_link, "_acl_set_link", "%s(\"%s\", %d, %#x)\", 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 },
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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_msgetl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", 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_mlockall, "mlockall", 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_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_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_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_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_setsockopt   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_mknodo 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___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__msgrecv 227
#define TARGET_FREEBSD_NR__shmct 228
#define TARGET_FREEBSD_NR__shmct 229
#define TARGET_FREEBSD_NR__shdct 230
#define TARGET_FREEBSD_NR__shmdt 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_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_modfstat 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_getfsstat 395
#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_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_setaffinity 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_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_MAXSYSSCALL 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_prof 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_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    75
#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
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segsseg 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 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_semgid 221
#define TARGET_OPENBSD_NR_msgmget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrecv 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_getidfrom 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_shmct1   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 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 TARGETEINVAL           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_EMMSIZE 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_ENOTCONN 58 /* Can't send after socket shutdown */
#define TARGET_ENOTEMPTY 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 */

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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 */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
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1.505 qemu-utils 1:2.5+dfsg :5ubuntu10.34

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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_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_freebsd6_mmap, "freebsd6_mmap", NULL, 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_getgid, "getgid", "%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", "%s()", 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 },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getwterm, "getwterm", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%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 },
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{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%d")", 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_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mtou, 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_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",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%d("%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_SR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%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",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
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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 */
#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

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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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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
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However, linking a "work that uses the Library" with the Library
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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
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
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copy of the library already present on the user’s computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, print_syscnt, NULL },
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{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s",%#d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", 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 },
{ 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_setssockopt, "setssockopt", 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_s莜mk, "s莜mk", 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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", NULL, NULL, NULL },
#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_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
/* 123 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_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_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_shmctld 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_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_siganaction 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___mac_getproc 380
#define TARGET_FREEBSD_NR___mac_setproc 381
#define TARGET_FREEBSD_NR___mac_getfd   382
#define TARGET_FREEBSD_NR___mac_setfd   383
#define TARGET_FREEBSD_NR_ksem_close    384
#define TARGET_FREEBSD_NR_ksem_post 400
#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_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_thr_set_name 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_sctp_peelloff 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_mmap 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_truncate 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_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_gssd_syscall 504
#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___shmct1 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_getegid     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__syscall    201
#define TARGET_OPENBSD_NR___sysctls   202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     205
#define TARGET_OPENBSD_NR_getpgid     206
#define TARGET_OPENBSD_NR_xfspioctl   207
#define TARGET_OPENBSD_NR_fspioctl    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       229
#define TARGET_OPENBSD_NR_clock_gettime       230
#define TARGET_OPENBSD_NR_clock_settime       231
#define TARGET_OPENBSD_NR_clock_getres        232
#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_fhstatfs    308
#define TARGET_OPENBSD_NR_nrgetfsstat 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 */
/
#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_EFBIG 26    /* 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 */
/
#define TARGET_EAGAIN 35   /* Resource temporarily unavailable */
#define TARGET_EROFS 30    /* Read-only file system */
#define TARGET_EMLINK 31   /* Too many links */
#define TARGET_EPIPE 32    /* Broken pipe */
/
#define TARGET_ENOTSOCK 38  /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39   /* Destination address required */
#define TARGET_EMSG_SIZE 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_ENOTCONN 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_EPROCCLIM 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_EELAST     90       /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/* System call numbers.
 *
 */

#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_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_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_getsockopt  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_getegid     43
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#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_sigtosstack13      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_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_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
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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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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_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_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_geteuid     47
#define TARGET_NETBSD_NR_getproclimits 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
```c
#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__execve      58
#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__getitimer   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_orecvv 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_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_ouquota 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_compact_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_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_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_fdatasync 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___mq_open 257
#define TARGET_NETBSD_NR___mq_close 258
#define TARGET_NETBSD_NR___mq_unlink 259
#define TARGET_NETBSD_NR___mq_getattr 260
#define TARGET_NETBSD_NR___mq_setattr 261
#define TARGET_NETBSD_NR___mq_notify 262
#define TARGET_NETBSD_NR___mq_send 263
#define TARGET_NETBSD_NR___mq_receive 264
#define TARGET_NETBSD_NR___posix_rename 265
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#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_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_sigtramp 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 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__pset_bind  415
#define TARGET_NETBSD_NR___posix_fadvise50 416

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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__semctlnx, "_semctlnx", 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", "chflags", 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)\n", 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)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%#x)\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)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, \"%s\", %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s("%s", %d, \"%s\", %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, \"%s\", %#x, %d)\n", 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 },

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_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", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()\", NULL, NULL },

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TARGET_FREEBSD_NR_getppid, "getppid", "%s()\", NULL, NULL },

TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)\", NULL, NULL },

TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },

TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },

TARGET_FREEBSD_NR_getuid, "getuid", "%s()\", NULL, NULL },

TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%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", 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_mmount, "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_nanosecond, "nanosecond", 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_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "prof", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", 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_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\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
```c

#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_getpgid 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 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_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_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_nntp_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_ntstat  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_nnpsf_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_siganction 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___setuid 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_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_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_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_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_msgrctl  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_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_setgid 48
#define TARGET_OPENBSD_NR_setprocmask 49
#define TARGET_OPENBSD_NR_getlogin 50
#define TARGET_OPENBSD_NR_setlogin 51
#define TARGET_OPENBSD_NR_getgrent 52
#define TARGET_OPENBSD_NR_getosgaltstack 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_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
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#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_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___sysct1   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_xfspioc1   208
#define TARGET_OPENBSD_NR_semget     221
#define TARGET_OPENBSD_NR_msgget     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_isetugid    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_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_signalstack 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___shmct1    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_adjfsstat   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 */

#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 TARGETEXIST 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 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 42 /* Protocol not available */
#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_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_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 8.1 (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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1.506 readline-common 6.3 :8ubuntu2

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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.

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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
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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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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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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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/
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Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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The following people have worked to translate sudo into other languages:

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

That's all there is to it!

1.524 sysv-rc 2.88dsf :59.3ubuntu2

1.524.1 Available under license :

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 .

sendsignals process omission interface

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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 http://people.debian.org/~hmh/invokerc.d-policyrc.d-specification.txt

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 successfully 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 successful.

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 boot process. 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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On Debian GNU/Linux systems, the complete text of the GNU General
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

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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.

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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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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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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
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Wed, 14 May 2008 10:29:00 +0100.

It was heavily modified to support the full Tomcat6 server stack by
Thierry Carrez <thierry.carrez@ubuntu.com>, based on the great work done by
the Debian Java Maintainers <pkg-java-maintainers@lists.alioth.debian.org>
on Tomcat 5.5 and initial packaging by David Pashley <david@davidpashley.com>.

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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
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This is free software, and you are welcome to redistribute it.
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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
   application. Therefore, Subsection 2d requires that any
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That's all there is to it!

1.535 Unzip 6.0-20ubuntu1

1.535.1 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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David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko,
Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs,
Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda,
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBUTIONS in the source distribution for a much
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.

--------------------------------------------------------------------------------------------------
1.536 ureadahead 0.100.0 :19

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   misc-utils/mcookie.c
   sys-utils/setsid.c
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   misc-utils/cal.c
   misc-utils/kill.c
   misc-utils/logger.c
   misc-utils/look.c
   misc-utils/whereis.c
   sys-utils/renice.c
   term-utils/mesg.c
   term-utils/script.c
   term-utils/ttymsg.c
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   text-utils/column.c
   text-utils/hexdump.c
   text-utils/hexdump.h
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Initialize empty image

Create new DOS partition table

Create 1st primary partition

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d6f51a88a045db233418dd73fbd 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 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
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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Arnaud LE HORS   BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
  Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" Vim syntax file
" Language:Software Distributor product specification file
" POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"# ][^#]*+ contained
Some of the attributes covered by attUnquotString and attQuotString:

- architecture
- category_tag
- control_directory
- copyright
- create_date
- description
- directory
- file_permissions
- install_source
- install_type
- location
- machine_type
- mod_date
- number
- os_name
- os_release
- os_version
- pose_as_os_name
- pose_as_os_release
- readme
- revision
- share_link
- title
- vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*\(data_model_revision\|layout_version\)\s\+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*\(install_date\)\s\+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*\(state\)\s\+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*\(patch_state\)\s\+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s\+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100
VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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If the number of changes is small (e.g., a modified Makefile) e-mailing a
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- If you want to support further Vim development consider becoming a
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  MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre	*kcc* *Kibaale* *charity*

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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The e-mail address for sending the money to is:
  Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
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  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
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Address to send checks to:
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  Finsterruetihof 1
  8134 Adliswil
  Switzerland

This address is expected to be valid for a long time.
1.540 vim-tiny 2:7.4.1689 :3ubuntu1.2

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This package was put together by Wichert Akkerman <wakkerma@debian.org> from sources obtained from: ftp://ftp.vim.org/pub/vim/unix/. The current maintainer is Debian VIM Maintainers <pkg-vim-maintainers@lists.alioth.debian.org>.

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(XPM - X PixMap format version 2 & 3)

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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^" ][^#]+*+ contained
syn region psfQuotString  start=+"+ skip=+"\+ end=+"+ contained

syn match  psfObjTag    "[-_+A-Z0-9a-z]+([-_+A-Z0-9a-z]+)+" contained
syn match  psfAttAbbrev ",([-fa|fr|[aclqrsv]|<|>|<=|>=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=_=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+=+==+"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=-^\s*[^# ]+\s+[^# ]-rs=e-1 contains=psfUnquotString,psfComment end=-$- keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=-^\s*[^# ]+\s+"-rs=e-1 contains=psfQuotString,psfComment skip=-\"- matchgroup=psfQuotString end=-\"- keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s+tag\s+" contains=psfObjTag,psfComment end="$" keepend
Define the default highlighting.

For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif
HiLink psfObject    Statement
HiLink psfAttrib    Type
Long descriptions and copyrights confuse the syntax highlighting, so
force vim to backup at least 100 lines before the top visible line
looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*    For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see |kcc|
bellow or visit the ICCF web site, available at these URLs:
http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
|manual-copyright|.

=== begin of license ===

VIM LICENSE

1) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
   e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is 
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

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

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

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

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

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

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

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

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

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

vim:tw=78:ts=8:ft=help:norl:

1.541 wget 1.17.1 :1ubuntu1.4
1.541.1 Available under license :

This package was debianized by
Christian Schwarz <schwarz@monet.m.isar.de> on Mon, 18 Nov 1996 00:59:57 +0100
J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000
Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300
Nol Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from ftp://ftp.gnu.org/gnu/wget/
Homepage: http://www.gnu.org/directory/wget.html
    http://www.gnu.org/software/wget/wget.html

Upstream Author: Giuseppe Scrivano <gscrivano@gnu.org>

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Released under the terms of the GPL; see
/usr/share/common-licenses/GPL-3.

"In addition, as a special exception, the Free Software Foundation
gives permission to link the code of its release of Wget with the
OpenSSL project’s "OpenSSL" library (or with modified versions of it
that use the same license as the "OpenSSL" library), and distribute
the linked executables. You must obey the GNU General Public License
in all respects for all of the code used other than "OpenSSL". If you
modify this file, you may extend this exception to your version of the
file, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version."
The wget(1) manpage and the wget info page are distributed under the terms of the GNU Free Documentation License; see /usr/share/common-licenses/GFDL-1.2

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Version 3, 29 June 2007

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When we speak of free software, we are referring to freedom, 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 them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based 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 computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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1.542 whiptail 0.52.18-1ubuntu2

1.542.1 Available under license:

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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1.545 x11-common 1:7.7 :13ubuntu3.1

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This is the Debian package of xml-core. It is assembled and maintained by Ardo van Rangelrooij <ardo@debian.org> and the Debian XML/SGML group.

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This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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