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Ultra Services Platform
Version N6.1

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883
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Cisco Systems, Inc.
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1.2 acl 2.2.51 :1

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1.10 aether-transport-wagon 1.0.2.v20150114 :v20150114

1.11 aether-util 1.0.2.v20150114 :v20150114

1.12 aggs-matrix-stats 5.2.2

1.13 ant-junit4 1.8.4

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1.14 antlr4-runtime 4.5.1-1 :1

1.15 apache 2.4.7-1ubuntu4.18 :1ubuntu4.18

1.15.1 Available under license:

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

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

*/

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

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

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

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University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
httpd@ncsa.uiuc.edu

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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, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
or:  directive URL x,y ... "Menu text"

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

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

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

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

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

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

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

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

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For the expat xml parser component:

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```
<script type="text/javascript">!--//--><![CDATA[<!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
        d.write('<div id="comments_thread"></div>');
        var s = d.createElement('script');
        s.type = 'text/javascript';
        s.async = true;
        s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
        (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
    } else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
    }
})(window, document);
!--//--]]></script>
```

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

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

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

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

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

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

Contributors to this code include:

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

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

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

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

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

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

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

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

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

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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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/]********************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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For the test\zb.c component:

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   ZeusBench V1.01
   ================

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

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

*/

For the expat xml parser component:

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1.24 apr-util 1.5.3

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1.25 apr-util 1.5.3-1

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1.26 apt 1.0.1ubuntu2.10

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

1.36 avahi 0.6.31 :4ubuntu1.1

1.36.1 Available under license :

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# USA.

set -e

# Command line arguments:
# $1 event that happened:
#   BIND: Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
  BIND)
    ifconfig "$2" "$3"/16
    ;;
  CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
    ;;
  *)
    echo "Unknown event $1" >&2
    exit 1
    ;;
esac

exit 0

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Version 2.1, February 1999

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

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

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.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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lib/readline/doc/rluser.texi (part of the GNU Readline Library manual)

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support/man2html.c

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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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 3a0982da308228d796df35f98d787c5cfe2bb5b6.

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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 pstream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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

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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
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### 1.43 busybox 1.21.0-1ubuntu1 :1ubuntu1

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.44 byte-buddy 1.6.5

1.45 byte-buddy-agent 1.6.5

1.46 byte-buddy-dep 1.6.5

1.47 bzip2 1.0.6-5 :5
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.48 ceph 0.80.11-0ubuntu1.14.04.2
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

1.87 dhcp 4.2.4-7ubuntu12.4 :7ubuntu12.4

1.87.1 Available under license:

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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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)
  $(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) \n  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
  @-$(LDCONFIG)

install-shlibs-strip: install-shlibs

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

install-strip: install

clean::
  $(RM) -rf pic
  $(RM) -f $(BSD_LIB)
  $(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o
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1.95 e2fsprogs 1.42.9-3ubuntu1.3

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

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

- trivial database library - private includes
- Copyright (C) Andrew Tridgell 2005
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# # This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB).so
$(RM) -f ../$(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) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
@-$(LDCONFIG)

install-strip: install
install-shlibs-strip: install-shlibs

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

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

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Version 2, June 1991

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Bart De Schuymer <bdschuym@pandora.be>
Nick Fedchik <nick@fedchik.org.ua>
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This is Debian GNU's prepackaged version of the FSF's GNU ed utility. The classic unix line editor, ed is a line-oriented text editor. It is used to create, display, modify and otherwise manipulate text files.

This package was put together by me, James Troup <james@nocrew.org>, from the GNU sources, which I obtained from:


The changes were small:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.
- buf.c (open_sbuf): use tmpfile() and not mktemp().
- glbl.c (exec_global), io.c (read_stream, get_stream_line), main.c (main, exec_command, get_matching_node_addr, strip_escapes), re.c (get_compiled_pattern), sub.c (extract_subst_template, substitute_matching_text): parentheses to quiet -Wall.
- ed.1: various fixes by Matt Kraai <kraai@alumni.carnegiemellon.edu>

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
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May 22, 2015

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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***The art of simplicity is a puzzle of complexity.***
## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
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A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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OSXAdapter

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Jeff Johnson <jbj@redhat.com>
Alexander Larsson
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Roland McGrath <roland@redhat.com>

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[PCRE]

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by:    Philip Hazel
Email local part:  ph10
Email domain:    cam.ac.uk

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THE C++ WRAPPER FUNCTIONS
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---------------------------------------------------------------------------

[Misc C library code]

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

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jiloup@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://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

---------------------------------------------------------------------------
[edoc, syntax_tools]

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[leex]

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[eldap]

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The original packager is Adam Di Carlo <aph@debian.org>. The current
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Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

* 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.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
Paul Sheer
Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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1.110 gawk 1:4.0.1+dfsg-2.1ubuntu2

:2.1ubuntu2

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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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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
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the scope of this License.

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that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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free programs, and that you know you can do these things.

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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.

TERMS AND CONDITIONS

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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Version 2, June 1991

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

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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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   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.

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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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uses the Library", as object code and/or source code, so that the
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It may happen that this requirement contradicts the license
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Upstream Author: Hans-J. Boehm <boehm@acm.org>

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Some code modified for Debian GNU/Linux by Ryan Murray <rmurray@debian.org>

1.112 gdbm 1.8.3 :12build1

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

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

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

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

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

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1.113 geoip 1.6.0 :1

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

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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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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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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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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.

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That's all there is to it!

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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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AUTHOR
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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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The complete snprintf package together with documentation is available from

    http://www.ijs.si/software/snprintf/

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
-------------
. The -mdoc macro set, using the BSD license.

   tmac/doc.tmac
   tmac/doc-old.tmac
   tmac/doc-common
   tmac/doc-ditroff
   tmac/doc-nroff
   tmac/doc-syms
   tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

   tmac/e.tmac
   tmac/groff_me.man
   doc/meintro.me
   doc/meref.me

Hyphenation Patterns

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
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   ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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Werner Lemberg <wl@gnu.org>.

This Debian package was previously maintained by Fabrizio Polacco
<fpolacco@debian.org>.
It is now maintained by Colin Watson <cjwatson@debian.org>.

The original tarball came from <URL:ftp://groff.ffii.org/pub/groff/>:
48fa768dd6fdeb7968041dd5ae8e2b02  groff-1.20.1.tar.gz
and was simply renamed to groff_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path
for compatibility with versions of groff earlier than 1.17 (patch by Colin
Watson).

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I e-mailed the upstream maintainer to clarify the intent of this. Here is the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>
To: cjwatson@debian.org
Subject: Re: Clarifying the scope of groff/LICENSE
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

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> assume that groff/LICENSE grants me permission to distribute
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> GPL?

This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some
> other way? I just want to make sure that I don't get forced to
> remove the groff manual, since that would really diminish the
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It basically affects only Bernd Warken and me, and we have both agreed to return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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The gxditview output device was based on X11’s xditview program and thus has
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The file tmac/hyphen.us is identical to the file hyphen.tex, part of the TeX system written by Donald E. Knuth; the master file can be found at:

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The file tmac/hyphen.fr contains the same patterns as the file frhyph.tex (for TeX), which can be found at:

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The patterns have been converted to a format groff can understand.

frhyph.tex % French hyphenation patterns
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% \message{frhyph.tex - French hyphenation patterns (V2.11) <2002/01/16>}

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For the following files in the groovy-jsr223 component:

- src/main/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
- src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
- src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineImpl.java

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1.137 gs-collections 5.1.0

1.138 gs-collections-api 5.1.0

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*/

package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {}

    /** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

    /** A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    // Sad that we can't use a BiMap. :

    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

        add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
        add(primToWrap, wrapToPrim, byte.class, Byte.class);
        add(primToWrap, wrapToPrim, char.class, Character.class);
        add(primToWrap, wrapToPrim, double.class, Double.class);
        add(primToWrap, wrapToPrim, float.class, Float.class);
        add(primToWrap, wrapToPrim, int.class, Integer.class);
        add(primToWrap, wrapToPrim, long.class, Long.class);
        add(primToWrap, wrapToPrim, short.class, Short.class);
add(primToWrap, wrapToPrim, void.class, Void.class);

PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
    Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
    }

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
    }

/**
 * Returns true if [code type] is one of the nine
 * primitive-wrapper types, such as [link Integer].
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
    }

/**
 * Returns the corresponding wrapper type of [code type] if it is a primitive
 * type; otherwise returns [code type] itself. Idempotent.
 * <pre>
 *     wrap(int.class) == Integer.class
 *     wrap(Integer.class) == Integer.class
 *     wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
    }
* Returns the corresponding primitive type of `@code type` if it is a
* wrapper type; otherwise returns `@code type` itself. Idempotent.
* <pre>
*     unwrap(Integer.class) == int.class
*     unwrap(int.class) == int.class
*     unwrap(String.class) == String.class
* </pre>
* /
*<code>public static &lt;T&gt; Class&lt;T&gt; unwrap(Class&lt;T&gt; type) {
   // cast is safe: long.class and Long.class are both of type Class&lt;Long&gt;
   @SuppressWarnings("unchecked")
   Class&lt;T&gt; unwrapped = (Class&lt;T&gt;) WRAPPER_TO_PRIMITIVE_TYPE.get(  
       $Gson$Preconditions.checkNotNull(type));
   return (unwrapped == null) ? type : unwrapped;
}<code>

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libraries change their licensing from version-to-version and some of
the libraries listed here as LGPL were under the GPL license in
older releases. Distributions which include GStreamer are responsible
for ensuring that plugins are used in accordance with licensing terms
and other laws.
GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

- a52dec liba52 (http://liba52.sourceforge.net/)
- aasink aalib (http://sourceforge.net/projects/aa-project/)
- edparanoia libcdparanoia (http://www.xiph.org/paranoia/)
- dtsdec libdts (http://www.videolan.org/dtsdec.html)
- dvdnavsrc lighbdnav (http://dvd.sourceforge.net/)
- dxr3 (http://dxr3.sourceforge.net/)
- icecastsend libshout (http://www.icecast.org)
- mad libmad (http://www.mars.org/home/rob/proj/mpeg/)
- mpeg2dec libmpeg2 (http://libmpeg2.sourceforge.net/)
- mpeg2enc libmpeg2enc (http://mjpeg.sourceforge.net/)
- mplex libmplex (http://mjpeg.sourceforge.net/)
- siddec libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/, http://sourceforge.net/projects/sidplay2/)
- trm libmusicbrainz (http://www.musicbrainz.org/)
- xine libxine (http://xinehq.de/)
- xvid libxvidcore (http://www.xvid.org/)

Plugins derived from GPL code are as follows:

- dvdreadsrc libdvdread (http://www.dtek.chalmers.se/groups/dvd/)
- jack libjack (http://jackit.sourceforge.net/)
  Note libjack is LGPL, but plugin is GPL.
- monoscope None (Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
- rtjpeg None (Erik Walthinsen's algorithm)
- rtp None (http://www.linphone.org/ortp/)
- synaesthesia (http://www.logarithmic.net/pfh/synaesthesia)
- system_encode None (Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)
- vbidec None (Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

- alsalalsa (http://alsa-project.org/)
- artsdsink aRts (http://arts-project.org/)
- cacasinclklibcaca (http://sam.zoy.org/projects/libcaca/)
- colorspaceclcslibcolorspace
- dvdec libdv (http://libdv.sourceforge.net/)
esdmon, esdsink libesd (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac libfaac (http://www.audiocoding.com/modules/mydownloads/)
fameenc libfame (http://fame.sourceforge.net/)
ffmpeg ffmpeg (http://ffmpeg.sourceforge.net/)
gdkpixbuf GTK+ (http://www.gtk.org/)
gnomevfs gnome-vfs (ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/)
gst_arts aRts (http://arts-project.org/)
gst1394 libraw1394 (http://www.linux1394.org/)
gstaf libaudiofile (http://www.68k.org/~michael/audiofile/)
gstsf libsndfile (http://www.mega-nerd.com/libsndfile/)
hermes colorspace Hermes (http://www.clanlib.org/hermes/)
kio KDE (http://www.kde.org/)
ladspa libmp3lame (http://lame.sourceforge.net/)
lame libvisual (http://libvisual.sourceforge.net/)
livemir libvisual (http://libvisual.sourceforge.net/)
matroska libmmalmod (http://www.matroska.org/)
mikmod libmikmod (http://mikmod.raphnet.net/)
odao (http://www.opensound.com/)
qcamsrc rfbb
sdlvideosink libSDL (http://www.libsdl.org/)
shout2send libshout2 (http://www.icecast.org)
smoothwave
swfdec swfdec (http://swfdec.sourceforge.net/)
tarkin (http://svn.xiph.org/trunk/tarkin/)
textoverlay pango (http://www.pango.org/)
dirac (http://www.bbc.co.uk/rd/projects/dirac/)
effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)
musepack (http://www.musepack.net)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
gsttheora libtheora (http://www.theora.org/)
speex (http://www.speex.org/)
flac libFLAC (http://flac.sourceforge.net/)

Plugins based on libraries with other free licenses:

ximagesink libXv
ximagesink libXv
- license: MIT X11 / X Consortium license

gsm libgsm
- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)
- license:  http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg  (http://www.iijg.org/)
- license:  IJG license

nas  (http://radscan.com/nas.html)
- license:  NAS license

snapshot libpng  (http://www.libpng.org/pub/png/)
- license:  PNG license

mngdec/mngenc libmng  (http://gjuyn.xs4all.nl/libmng)
- license  PNG license

Plugins using non-free libraries:
divxdec, divxenc  (http://www.divx.com/)
osxaudio  (http://www.apple.com/macosx/)
sunaudiosink  (http://www.sun.com/)

Unsure:

faad libfaad  (http://www.audiocoding.com/)
faad's license depends on its major version:
- for FAAD1: it is LGPL
- for FAAD2: it is GPL
look at these pages for more information on licenses:

by default, GStreamer faad plugin would compile against FAAD2 if available.
it falls back to FAAD1 if not.
/*
* GStreamer
* Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
* Copyright (C) 2006 Stefan Kost <ensonic@users.sf.net>
*
* 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.
*
* 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
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
/**
 * SECTION:element-audioamplify
 *
 * Amplifies an audio stream by a given factor and allows the selection of different clipping modes.
 * The difference between the clipping modes is best evaluated by testing.
 *
 * <refsect2>
 * <title>Example launch line</title>
 * [
 * gst-launch audiotestsrc wave=saw ! audioamplify amplification=1.5 ! alsasink
 * gst-launch filesrc location="melo1.ogg" ! oggdemux ! vorbisdec ! audioconvert ! audioamplify amplification=1.5
 * method=wrap-negative ! alsasink
 * gst-launch audiotestsrc wave=saw ! audioconvert ! audioamplify amplification=1.5
 * method=wrap-positive ! audioconvert ! alsasink
 * ]
 * </refsect2>
 */

#pragma once

#include "config.h"

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
#include <gst/controller/gstcontroller.h>

#include "audioamplify.h"

define GST_CAT_DEFAULT gst_audio_amplify_debug

GST_DEBUG_CATEGORY_STATIC (GST_CAT_DEFAULT);

/* Filter signals and args */
enum
{
  /* FILL_ME */
  LAST_SIGNAL
};

enum
{
  PROP_0,
  PROP_AMPLIFICATION,
  LAST_PROPERTY
};

/* FILL_ME */

#define MAX_KNOWN_PROPS 6

// Pad private data
typedef struct _AudioAmplifyPrivate
{
  guint32 last_signal;
  guint32 version;
  guint32 property;
  guint32 unknown_properties;
} AudioAmplifyPrivate;

// Pad public interface

typedef struct _AudioAmplify
{
  PadPrivate pad;
  AudioAmplifyPrivate priv;
  gint32 amplification;
  guint32 unknown_properties;
} AudioAmplify;

// Pad interface

extern const GstPadTemplate gst_audioamplify_sink_template;
extern const GstPadTemplate gst_audioamplify_source_template;

// Pad functions

gboolean gstreamer_pad_connect杲streamer_pad_set杲streamer_pad_link杲streamer_pad_get杲streamer_pad_query杲streamer_pad_release杲streamer_pad_sync杲streamer_pad_state杲streamer_pad_property杲streamer_pad_to_plugin杲streamer_pad_from_plugin

// Pad class

static gboolean gst_audioamplify_class_init(AudioAmplifyClass* klass);
PROP_CLIPPING_METHOD

enum
{
    METHOD_CLIP = 0,
    METHOD_WRAP_NEGATIVE,
    METHOD_WRAP_POSITIVE,
    METHOD_NOCLIP,
    NUM_METHODS
};

#define GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD (gst_audio_amplify_clipping_method_get_type ()
static GType
gst_audio_amplify_clipping_method_get_type (void)
{
    static GType gtype = 0;

    if (gtype == 0) {
        static const GEnumValue values[] = {
            {METHOD_CLIP, "Normal clipping (default)", "clip"},
            {METHOD_WRAP_NEGATIVE,
            "Push overdriven values back from the opposite side",
            "wrap-negative"},
            {METHOD_WRAP_POSITIVE, "Push overdriven values back from the same side",
            "wrap-positive"},
            {METHOD_NOCLIP, "No clipping", "none"},
            {0, NULL, NULL}
        };
        /* FIXME 0.11: rename to GstAudioAmplifyClippingMethod */
        gtype = g_enum_register_static ("GstAudioPanoramaClippingMethod", values);
    }
    return gtype;
}

#define ALLOWED_CAPS                                                  
"audio/x-raw-int,"                                                
" depth=(int)8,"                                                  
" width=(int)8,"                                                  
" endianness=(int)BYTE_ORDER,"                                    
" signed=(bool)TRUE,"                                             
" rate=(int)[1,MAX],"                                            
" channels=(int)[1,MAX], "                                        
" audio/x-raw-int,"                                              
" depth=(int)16,"                                                
" width=(int)16,"
"endianness=(int)BYTE_ORDER," \ 
"signed=(bool)TRUE," \ 
"rate=(int)[1,MAX]," \ 
"channels=(int)[1,MAX];" \ 
"audio/x-raw-int," \ 
"depth=(int)32," \ 
"width=(int)32;" \ 
"endianness=(int)BYTE_ORDER," \ 
"signed=(bool)TRUE," \ 
"rate=(int)[1,MAX]," \ 
"channels=(int)[1,MAX];" \ 
"audio/x-raw-float," \ 
"width=(int){32,64}," \ 
"endianness=(int)BYTE_ORDER," \ 
"rate=(int)[1,MAX]," \ 
"channels=(int)[1,MAX]"

#define DEBUG_INIT(bla) \ 
GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");

GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter, 
G_TYPE_AUDIO_FILTER, DEBUG_INIT);

static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify * 
filter, gint clipping, gint format, gint width);
static gboolean gst_audio_amplify_set_property (GObject * object, guint prop_id, 
const GValue * value, GParamSpec * pspec);
static gboolean gst_audio_amplify_get_property (GObject * object, guint prop_id, 
GValue * value, GParamSpec * pspec);
static gboolean gst_audio_amplify_setup (GstAudioFilter * filter, 
GstRingBufferSpec * format);
static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base, 
GstBuffer * buf);

#define MIN_gint8 G_MININT8
#define MAX_gint8 G_MAXINT8
#define MIN_gint16 G_MININT16
#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32

#define MAKE_INT_FUNCS(type,largetype) \ 
static void \ 
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter, \ 
void * data, guint num_samples) \ 
{ \ 
  type *d = data; \ 
}
while (num_samples--) {
    largetype val = *d * filter->amplification;
    *d++ = CLAMP (val, MIN_##type, MAX_##type);
}
}
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter,
    void * data, guint num_samples)
{
    type *d = data;
}

while (num_samples--) {
    largetype val = *d * filter->amplification;
    if (val > MAX_##type)
        val = MIN_##type + (val - MIN_##type) % ((largetype) MAX_##type + 1 -
            MIN_##type);
    else if (val < MIN_##type)
        val = MAX_##type - (MAX_##type - val) % ((largetype) MAX_##type + 1 -
            MIN_##type);
    *d++ = val;
}
}
}
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter,
    void * data, guint num_samples)
{
    type *d = data;
}

while (num_samples--) {
    largetype val = *d * filter->amplification;
    do {
        if (val > MAX_##type)
            val = MAX_##type - (val - MAX_##type);
        else if (val < MIN_##type)
            val = MIN_##type + (MIN_##type - val);
        else
            break;
    } while (1);
    *d++ = val;
}
}
}
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
    void * data, guint num_samples)
{
    type *d = data;
}
while (num_samples--) {     
    *d++ *= filter->amplification;  
}

#define MAKE_FLOAT_FUNCS(type)  
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter, 
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        type val = *d* filter->amplification;
        *d++ = CLAMP (val, -1.0, +1.0);
    }
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter, 
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        type val = *d* filter->amplification;
        do {
            if (val > 1.0)
                val = -1.0 + (val - 1.0);
            else if (val < -1.0)
                val = 1.0 - (1.0 - val);
            else
                break;
        } while (1);
        *d++ = val;
    }
}
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, 
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        type val = *d* filter->amplification;
        do {
            if (val > 1.0)
                val = 1.0 - (val - 1.0);
            else if (val < -1.0)
                val = -1.0 + (-1.0 - val);
            else
                break;
        } while (1);
        *d++ = val;
    }
}
else
  break;
}while (1);
*d++ = val;
}
}
static void

gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
  void * data, guint num_samples)
{
  type *d = data;
  while (num_samples--)
    *d++ *= filter->amplification;
}

/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */

/* GObject vmethod implementations */

static void
gst_audio_amplify_base_init (gpointer klass)
{
  GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
  GstCaps *caps;

gst_element_class_set_details_simple (element_class, "Audio amplifier",
  "Filter/Effect/Audio",
  "Amplifies an audio stream by a given factor",
  "Sebastian Drge <slomo@circular-chaos.org>");

caps = gst_caps_from_string (ALLOWED_CAPS);
  gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
              caps);
  gst_caps_unref (caps);
}

static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
{
  GObjectClass *gobject_class;
gobject_class = (GObjectClass *) klass;
gobject_class->set_property = gst_audio_amplify_set_property;
gobject_class->get_property = gst_audio_amplify_get_property;

g_object_class_install_property (gobject_class, PROP_AMPLIFICATION,
    g_param_spec_float ("amplification", "Amplification",
        "Factor of amplification", -G_MAXFLOAT, G_MAXFLOAT,
        1.0,
        G_PARAM_READWRITE | GST_PARAM_CONTROLLABLE | G_PARAM_STATIC_STRINGS));

/**
 * GstAudioAmplify:clipping-method
 *
 * Clipping method: clip mode set values higher than the maximum to the
 * maximum. The wrap-negative mode pushes those values back from the
 * opposite side, wrap-positive pushes them back from the same side.
 * */
/**
 * g_object_class_install_property (gobject_class, PROP_CLIPPING_METHOD,
 *     g_param_spec_enum ("clipping-method", "Clipping method",
 *         "Selects how to handle values higher than the maximum",
 *         GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD, METHOD_CLIP,
 *         G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

GST_AUDIO_FILTER_CLASS (klass)->setup =
    GST_DEBUG_FUNCPTR (gst_audio_amplify_setup);
GST_BASE_TRANSFORM_CLASS (klass)->transform_ip =
    GST_DEBUG_FUNCPTR (gst_audio_amplify_transform_ip);
}

static void
gst_audio_amplify_init (GstAudioAmplify * filter, GstAudioAmplifyClass * klass)
{
    filter->amplification = 1.0;
gst_audio_amplify_set_process_function (filter, METHOD_CLIP,
    GST_BUFTYPE_LINEAR, 16);
gst_base_transform_set_in_place (GST_BASE_TRANSFORM (filter), TRUE);
gst_base_transform_set_gap_aware (GST_BASE_TRANSFORM (filter), TRUE);
}

static GstAudioAmplifyProcessFunc
gst_audio_amplify_process_function (gint clipping, gint format, gint width)
{
    static const struct process
    {
        gint format;
        gint width;
        gint clipping;

GstAudioAmplifyProcessFunc func;
} process[] = {

GST_BUFTYPE_FLOAT, 32, METHOD_CLIP,
    gst_audio_amplify_transform_gfloat_clip}, {
GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gfloat_wrap_negative}, {
GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gfloat_wrap_positive}, {
GST_BUFTYPE_FLOAT, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gfloat_noclip}, {
GST_BUFTYPE_FLOAT, 64, METHOD_CLIP,
    gst_audio_amplify_transform_gdouble_clip}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gdouble_wrap_negative}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gdouble_wrap_positive}, {
GST_BUFTYPE_FLOAT, 64, METHOD_NOCLIP,
    gst_audio_amplify_transform_gdouble_noclip}, {
GST_BUFTYPE_LINEAR, 8, METHOD_CLIP, gst_audio_amplify_transform_gint8_clip}, {
GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint8_wrap_negative}, {
GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint8_wrap_positive}, {
GST_BUFTYPE_LINEAR, 8, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint8_noclip}, {
GST_BUFTYPE_LINEAR, 16, METHOD_CLIP,
    gst_audio_amplify_transform_gint16_clip}, {
GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint16_wrap_negative}, {
GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint16_wrap_positive}, {
GST_BUFTYPE_LINEAR, 16, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint16_noclip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_CLIP,
    gst_audio_amplify_transform_gint32_clip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint32_wrap_negative}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint32_wrap_positive}, {
GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint32_noclip}, {
0, 0, 0, NULL}
};

const struct process *p;

for (p = process; p->func; p++)
    if (p->format == format && p->width == width && p->clipping == clipping)
static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
    clipping_method, gint format, gint width)
{
    GstAudioAmplifyProcessFunc process;

    /* set processing function */

    process = gst_audio_amplify_process_function (clipping_method, format, width);
    if (!process) {
        GST_DEBUG ("wrong format");
        return FALSE;
    }

    filter->process = process;
    filter->clipping_method = clipping_method;
    filter->format = format;
    filter->width = width;

    return TRUE;
}

static void
gst_audio_amplify_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

    switch (prop_id) {
    case PROP_AMPLIFICATION:
        filter->amplification = g_value_get_float (value);
        gst_base_transform_set_passthrough (GST_BASE_TRANSFORM (filter),
            filter->amplification == 1.0);
        break;
    case PROP_CLIPPING_METHOD:
        gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
            filter->format, filter->width);
        break;
    default:
        G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
        break;
    }
}
static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
   GValue * value, GParamSpec * pspec)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

  switch (prop_id) {
    case PROP_AMPLIFICATION:
      g_value_set_float (value, filter->amplification);
      break;
    case PROP_CLIPPING_METHOD:
      g_value_set_enum (value, filter->clipping_method);
      break;
    default:
      G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
      break;
  }
}

/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);

  return gst_audio_amplify_set_process_function (filter,
        filter->clipping_method, format->type, format->width);
}

/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
  guint num_samples;
  GstClockTime timestamp, stream_time;

  timestamp = GST_BUFFER_TIMESTAMP (buf);
  stream_time =
    gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);

  GST_DEBUG_OBJECT (filter, "sync to [%s"]
    stream_time =
    GST_TIME_ARGS (timestamp));

  if (GST_CLOCK_TIME_IS_VALID (stream_time))
    gst_object_sync_values (G_OBJECT (filter), stream_time);

  num_samples =

  return GST_OK;
}
GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);

if (gst_base_transform_is_passthrough (base) || G_UNLIKELY (GST_BUFFER_FLAG_IS_SET (buf, GST_BUFFER_FLAG_GAP)))
    return GST_FLOW_OK;

filter->process (filter, GST_BUFFER_DATA (buf), num_samples);

return GST_FLOW_OK;
}

/*
 * GStreamer
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 */

#ifndef __GST_AUDIO_AMPLIFY_H__
#define __GST_AUDIO_AMPLIFY_H__

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/gstaudiofilter.h>

G_BEGIN_DECLS
#define GST_TYPE_AUDIO_AMPLIFY (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj) (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj) (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass)    (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIO_AMPLIFY))
#define GST_TYPE_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIO_AMPLIFY))

G_END_DECLS

#endif __GST_AUDIO_AMPLIFY_H__
typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;

typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);

struct _GstAudioAmplify
{
  GstAudioFilter audiofilter;
  gfloat amplification;

  /* < private > */
  GstAudioAmplifyProcessFunc process;
  gint clipping_method;
  gint format;
  gint width;
};

struct _GstAudioAmplifyClass
{
  GstAudioFilterClass parent;
};

GType gst_audio_amplify_get_type (void);

G_END_DECLS
#endif /* __GST_AUDIO_AMPLIFY_H__ */

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Doug Rabson

GSS-API mechglue layer.

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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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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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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AES in libhcrypto

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rijndael-alg-fst.c

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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</head>

<body>
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    html { font-family: sans-serif; text-size-adjust: 100%; }
    html { font-size: 10px; -webkit-tap-highlight-color: rgba(0, 0, 0, 0); }
    body { margin: 0px; }
    body { font-family: "Source Sans Pro", sans-serif; font-size: 16px; line-height: 1.42857; color: rgb(51, 51, 51); background-color: rgb(255, 255, 255); }
</style>
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                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
        </div>
    </div>
</header>

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            <div class="navbar-header">
                <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
            </div>
        </div>
    </nav>
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    <div class="row">
        <br />
        <div class="col-sm-1"></div>
        <div class="col-sm-2">
            <h5 class="white">Community</h5>
            <ul class="list-unstyled white" role="menu">
                <li><a href="http://community.apache.org/">Overview</a></li>
                <li><a href="/foundation/conferences.html">Conferences</a></li>
                <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
                <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
                <li><a href="/travel/">Travel Assistance</a></li>
                <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
                <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
                <li><a href="/memorials/">Memorials</a></li>
            </ul>
        </div>
        <div class="col-sm-2">
            <h5 class="white">Innovation</h5>
            <ul class="list-unstyled white" role="menu">
                <li><a href="http://incubator.apache.org/">Incubator</a></li>
                <li><a href="http://labs.apache.org/">Labs</a></li>
                <li><a href="/licenses/">Licensing</a></li>
                <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
                <li><a href="/foundation/marks/">Trademark Policy</a></li>
                <li><a href="/foundation/contact.html">Contacts</a></li>
            </ul>
        </div>
        <div class="col-sm-2">
            <h5 class="white">Tech Operations</h5>
            <ul class="list-unstyled white" role="menu">
                <li><a href="/dev/">Developer Information</a></li>
                <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
                <li><a href="/security/">Security</a></li>
                <li><a href="http://status.apache.org/">Status</a></li>
                <li><a href="/foundation/contact.html">Contacts</a></li>
            </ul>
        </div>
        <div class="col-sm-2">
            <h5 class="white">Press</h5>
            <ul class="list-unstyled white" role="menu">
                <li><a href="/press/">Overview</a></li>
            </ul>
        </div>
    </div>
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1.167 httcpcore 4.4.5

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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
</head>
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</body>
</html>
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</head>

<body>

<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
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<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
</div>
</div>
</nav>
</header>

</body>
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1.168 httpcore-nio 4.4.5

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    <meta charset="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software Foundation.</p>
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<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
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It was originally lifted from http://subversion.apache.org/style/site.css */

/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/

.headerlink, .elementid-permalink {
  visibility: hidden;
}

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }

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1.169 httpmime 4.5.2

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<div class="col-sm-1"></div>
<div class="col-sm-2">
<h5 class="white">Community</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://community.apache.org/">Overview</a></li>
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<li><a href="/memorials/">Memorials</a></li>
</ul>
</div>
<div class="col-sm-2">
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<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
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<li><a href="/licenses/">Licensing</a></li>
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<li><a href="/foundation/marks/">Trademark Policy</a></li>
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</ul>
</div>
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
</ul>
</div>
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</div>
</footer>
1.170 icu 52.1-3 :3

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## 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,-Bsjavab

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $(<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
$@: $(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/([^\n])\|[^\n]*/\1.o $@ : /g\" > $@;\
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$@: $(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/([^\n])\|[^\n]*/\1.o $@ : /g\" > $@;\
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.S$(SO).$(SO_TARGET_VERSION_MAJOR): %.S$(SO).$(SO_TARGET_VERSION)
$@: $(RM) $@ && ln -s ${<F} $@

%.S$(SO): %.S$(SO).$(SO_TARGET_VERSION_MAJOR)
$@: $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.

The original source was downloaded from http://icu-project.org/download/latest_milestone.html

The main web site for ICU is
http://www.icu-project.org/

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1.171 icu 52.1-3ubuntu0.4 :3ubuntu0.4

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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 $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
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1.188 jackson-databind 2.6.5

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1.191 jackson-dataformat-xml 2.8.6

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1.195 java-getopt 1.0.13 :(2006/08/29)

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1.205 jaxb-api 2.2.11

1.206 jaxb-api 2.1

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1.221 jedit-core 0.2.1

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 */

package org.jledit.simple;

import jline.Terminal;
import jline.console.KeyMap;
import org.fusesource.jansi.Ansi;
import org.jledit.command.Command;
import org.jledit.command.CommandNotFoundException;
import org.jledit.command.editor.BackspaceCommand;
import org.jledit.command.editor.DeleteCommand;
import org.jledit.command.editor.FindCommand;
import org.jledit.command.editor.FindNextCommand;
import org.jledit.command.editor.FindPreviousCommand;
import org.jledit.command.editor.GoToCommand;
import org.jledit.command.editor.MoveCursorDownCommand;
import org.jledit.command.editor.MoveCursorLeftCommand;
import org.jledit.command.editor.MoveCursorRightCommand;
import org.jledit.command.editor.MoveCursorToEndOfLineCommand;
import org.jledit.command.editor.MoveCursorToStartOfLineCommand;
import org.jledit.command.editor.MoveCursorUpCommand;
import org.jledit.command.editor.NewLineCommand;
import org.jledit.command.editor.PasteCommand;
import org.jledit.command.editor.QuitCommand;
import org.jledit.command.editor.TypeCommand;
import org.jledit.command.file.FileCloseCommand;
import org.jledit.command.file.FileOpenCommand;
import org.jledit.command.file.FileSaveCommand;
import org.jledit.command.undo.RedoCommand;
import org.jledit.command.undo.UndoCommand;
import org.jledit.AbstractConsoleEditor;
import org.jledit.EditorOperation;
import org.jledit.EditorOperationType;
import org.jledit.utils.Strings;
import org.jledit.utils.internal.KeyMaps;

import java.io.InputStream;
import java.io.PrintStream;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import static org.fusesource.jansi.Ansi.ansi;

public class SimpleConsoleEditor extends AbstractConsoleEditor {

    private final Map<String, String> supportedOperations = new LinkedHashMap<String, String>();
    private final List<String> helpLines = new LinkedList<String>();

    public SimpleConsoleEditor(Terminal terminal, InputStream in, PrintStream out) throws Exception {
        super(terminal, in, out);
        setKeys(createKeyMap());
    }

    private final Map<String, String> supportedOperations = new LinkedHashMap<String, String>();
    private final List<String> helpLines = new LinkedList<String>();

    public SimpleConsoleEditor(Terminal terminal, InputStream in, PrintStream out) throws Exception {
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    }

public class SimpleConsoleEditor extends AbstractConsoleEditor {

private final Map tString, String> supportedOperations = new LinkedHashMap<String, String>();
private final List tString> helpLines = new LinkedList<String>();

public SimpleConsoleEditor(Terminal terminal, InputStream in, PrintStream out) throws Exception {
    super(terminal, in, out);
    setKeys(createKeyMap());
}
supportedOperations.put("^O", "Open");
supportedOperations.put("^X", "Quit");
supportedOperations.put("^S", "Save");
supportedOperations.put("^Z", "Undo");
supportedOperations.put("^R", "Redo");
supportedOperations.put("^G", "Go To");
supportedOperations.put("^F", "Find");
supportedOperations.put("^N", "Next");
supportedOperations.put("^P", "Previous");
addHelpLines(helpLines);
setFooterSize(helpLines.size() + 1);
}

public void redrawHeader() {
    saveCursorPosition();
    getConsole().out().print(ansi().cursor(1, 1));
    Ansi style = ansi();
    if (getTheme().getHeaderBackground() != null) {
        style.bg(getTheme().getHeaderBackground());
    }
    if (getTheme().getHeaderForeground() != null) {
        style.fg(getTheme().getHeaderForeground());
    }
    String textCoords = "L:" + getLine() + " C:" + getColumn();
    int displayFileLength = getTerminal().getWidth() - getTitle().length() - textCoords.length() - 1;
    getConsole().out().print(style.a(getTitle()).a(":").a(Strings.tryToTrimToSize(getDisplayAs(),
        displayFileLength)).a(isDirty() ? DIRTY_SIGN : ".").eraseLine(Ansi.Erase.FORWARD));
    getConsole().out().print(ansi().cursor(1, getTerminal().getWidth() - textCoords.length()));
    getConsole().out().print(ansi().a(textCoords).reset());
    getConsole().out().print(ansi().cursor(getTerminal().getHeight(), 1));
    restoreCursorPosition();
}

/**
 * Refreshes the footer that displays the current line and column.
 */

public void redrawFooter() {
    saveCursorPosition();
    Ansi style = ansi();
    if (getTheme().getFooterBackground() != null) {
        style.bg(getTheme().getFooterBackground());
    }
    if (getTheme().getFooterForeground() != null) {
        style.fg(getTheme().getFooterForeground());
    }
    getConsole().out().print(style);  
    getConsole().out().print(ansi().cursor(1, getTerminal().getWidth() - textCoords.length()));
    getConsole().out().print(ansi().a(textCoords).reset());
    getConsole().out().print(ansi().cursor(getTerminal().getHeight(), 1));
v    restoreCursorPosition();
}
for (int i = 1; i <= helpLines.size(); i++) {
    String helpLine = helpLines.get(i - 1);
    int startColumn = (getTerminal().getWidth() - helpLine.length()) / 2;
    getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, 1).eraseLine(Ansi.Erase.FORWARD));
    getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, startColumn));
    getConsole().out().print(helpLine);
}
getConsole().out().print(ansi().reset());
restoreCursorPosition();

/**
 * Redraws the cursor coordinates if the flavor supports that.
 */
@Override
public void redrawCoords() {
    //We redraw the full header to prevent glitches with the coordinates.
    redrawHeader();
}

private void addHelpLines(List<String> helpLines) {
    helpLines.clear();
    StringBuilder sb = new StringBuilder();
    boolean startOfLine = true;
    for (Map.Entry<String, String> entry : supportedOperations.entrySet()) {
        String key = entry.getKey();
        String desc = entry.getValue();
        String txt;
        if (startOfLine) {
            txt = key + " " + desc;
            startOfLine = false;
        } else {
            txt = "    " + key + " " + desc;
        }
        if (txt.length() + sb.length() > getTerminal().getWidth()) {
            helpLines.add(sb.toString());
            sb.delete(0, sb.length());
            startOfLine = true;
        }
        sb.append(txt);
    }
    helpLines.add(sb.toString());
}

@Override
public Command create(EditorOperation operation) throws CommandNotFoundException {
    switch (operation.getType()) {

}
case TYPE:
    return new TypeCommand(this, operation.getInput());

case NEWLINE:
    return new NewLineCommand(this);

case BACKSAPCE:
    return new BackspaceCommand(this);

case DELETE:
    return new DeleteCommand(this);

case PASTE:
    return new PasteCommand(this);

// Cursor operations

case HOME:
    return new MoveCursorToStartOfLineCommand(this);

case END:
    return new MoveCursorToEndOfLineCommand(this);

case UP:
    return new MoveCursorUpCommand(this);

case DOWN:
    return new MoveCursorDownCommand(this);

case LEFT:
    return new MoveCursorLeftCommand(this);

case RIGHT:
    return new MoveCursorRightCommand(this);

// File Operations

case SAVE:
    return new FileSaveCommand(this);

case OPEN:
    return new FileOpenCommand(this, null);

case CLOSE:
    return new FileCloseCommand(this);

case QUIT:
    return new QuitCommand(this);

// UNDO & REDO

case UNDO:
    return new UndoCommand(this, getUndoContext());

case REDO:
    return new RedoCommand(getUndoContext());

case FIND:
    return new FindCommand(this);

case FIND_NEXT:
    return new FindNextCommand(this, null);

case FIND_PREVIOUS:
    return new FindPreviousCommand(this, null);

case GOTO:
    return new GoToCommand(this);

}

throw new CommandNotFoundException("Could not find command for Operation");
private KeyMap createKeyMap() {
    Object[] ctrl = new Object[] {
        // Control keys.
        null,       /* Control-@ */
        null,       /* Control-A */
        null,       /* Control-B */
        null,       /* Control-C */
        null,       /* Control-D */
        null,       /* Control-E */
        EditorOperationType.FIND, /* Control-F */
        EditorOperationType.GOTO,  /* Control-G */
        EditorOperationType.BACKSAPCE, /* Control-H */
        null,       /* Control-I */
        EditorOperationType.NEWLINE, /* Control-J */
        null,       /* Control-K */
        null,       /* Control-L */
        EditorOperationType.NEWLINE, /* Control-M */
        EditorOperationType.FIND_NEXT, /* Control-N */
        EditorOperationType.OPEN,    /* Control-O */
        EditorOperationType.FIND_PREVIOUS, /* Control-P */
        EditorOperationType.QUIT,    /* Control-Q */
        EditorOperationType.REDO,    /* Control-R */
        EditorOperationType.SAVE,    /* Control-S */
        null,       /* Control-T */
        EditorOperationType.UNDO,    /* Control-U */
        EditorOperationType.PASTE,   /* Control-V */
        null,       /* Control-W */
        EditorOperationType.QUIT,    /* Control-X */
        null,       /* Control-Y */
        EditorOperationType.UNDO,    /* Control-Z */
        null,       /* Control-[ */
        null,       /* Control-\ */
        null,       /* Control-] */
        null,       /* Control-^ */
        null,       /* Control-_ */
    };

    KeyMap simpleKeyMap = new KeyMap("simple", false);
    for (char c = 0; c < ctrl.length; c++) {
        simpleKeyMap.bind(Character.toString(c), ctrl[c]);
    }
    for (char c = 32; c < 256; c++) {
        simpleKeyMap.bind(Character.toString(c), EditorOperationType.TYPE);
    }
    simpleKeyMap.bind(Character.toString((char) 127), EditorOperationType.BACKSAPCE);
    KeyMaps.bindArrowKeys(simpleKeyMap);
}
return simpleKeyMap;
}

@Override
public void setDirty(Boolean dirty) {
    super.setDirty(dirty);
    redrawHeader();
}

@Override
public void setReadOnly(boolean readOnly) {
    super.setReadOnly(readOnly);
    if (readOnly) {
        supportedOperations.remove("^S");
    } else {
        supportedOperations.put("^S", "Save");
    }
    addHelpLines(helpLines);
}

@Override
public void setOpenEnabled(boolean openEnabled) {
    super.setOpenEnabled(openEnabled);
    if (!openEnabled) {
        supportedOperations.remove("^O");
    } else {
        supportedOperations.put("^O", "Open");
    }
    addHelpLines(helpLines);
}

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1.223 jline 2.14.2

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The primary ANTLR guy:

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

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

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

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/*
 File: Core.js

Description:

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

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


Author:

Nicolas Garcia Belmonte
Copyright:

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1.1.2

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That's all there is to it!
Modified by Atlassian

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

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/*
File: Core.js

Description:

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

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

Author:

Nicolas Garcia Belmonte

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Jan Holmberg, <jan@artech.net>:
 o Memory framework
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Bradley Baetz, <bradley.baetz@optusnet.com.au>:
 o MISC checker redesign
 o Scheduler framework extension to support child process handling.
 o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
 o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
 o Added dont_track_primary, nopreempt,
preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

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

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.

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======================================================================

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_util.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
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/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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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()
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and the initial implementation of incremental propagation, including
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```python
include/kadmin/server/ipropd_svc.c
include/kdb/iprop_hdr.h
include/kdb/iprop_x
include/kdb/kdb_convert.c
include/kdb/kdb_log.c
include/kdb/kdb_log.h
include/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc
```

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```
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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
```
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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
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    slave/kpropd_rpc.c
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69. Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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#
# 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
    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
    # 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

    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

            # Scan for license statements.
in_comment = False

            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
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\*/.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
        code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
        ln += 1
for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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/*
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/*
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```
cmd/krb5/iprop/iprop.x
```
```
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_exp_sec_context.c
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```
lib/libgss/g_init_sec_context.c
```
```
lib/libgss/g_initialize.c
```
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lib/libgss/g_inquire_context.c
```
```
lib/libgss/g_inquire_cred.c
```
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
</head>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```
src/lib/gssapi
```

including the following files:

```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_get_name
```

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<p>and the initial implementation of incremental propagation, including the following new or changed files:<span class="highlight-python">:
</span></p>

```python
include/class/iprop_hdr.h
kadmin/server/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
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lib/gssapi/mechglue/g_inquire_names.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

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/krb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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This is the Debian GNU/Linux prepackaged version of kmod.
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Original sources were obtained from:
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1.249 kxml 2.3.0 :5.el7

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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===================================================================
snakeyaml-NOTICE
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***The art of simplicity is a puzzle of complexity.***

## Overview ##
[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##
* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##
* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##
* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
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1.254 lcms 1.18

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1.255 less 458-2

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1.259 libevent 2.0.21-stable-1ubuntu1.14.04.1

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1.260 libffi 3.1-rc1+r3.0.13-12 :12

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1.261 libffi 3.1~rc1+r3.0.13-12ubuntu0.1

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1.263 libgcrypt 1.5.3-2ubuntu4.2

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1.265 libicu 52.1-3ubuntu0.4

1.266 libicu 52.1-3ubuntu0.3 :3ubuntu0.3
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```bash
## -*-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 $@ $<
%.%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.%.c: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.%.cpp: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '\$(GEN_DEPS.c) $< \
| sed \"s/(\$\%)/(\$\%).o [ :]*/\1.o $@ : /g\" > $@; \
[ -s $@ ] \| rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '\$(GEN_DEPS.cc) $< \
| sed \"s/(\$\%)/(\$\%).o [ :]*/\1.o $@ : /g\" > $@; \
[ -s $@ ] \| rm -f $@’

## Versioned libraries rules
%.%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.%.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $(<F) $@
%.%.: %.%.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(<F).$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

# 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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/* gutf8.c - Operations on UTF-8 strings.
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1.268 libintl 0.18.2 :2
1.269 libjpeg 6b

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

=========================================

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpg.com, and wrjpg.com.

*.1 Unix-style man pages for programs (same info as usage.doc).

wizard.doc Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.

texample.c Sample code for calling the JPEG library.

structure.doc Overview of the JPEG library's internal structure.

tfilelist.doc Road map of IJG files.

tcoderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
 ========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djjpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone STILL Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

**1.270 libjpeg8-empty 8c-2ubuntu8 :2ubuntu8**

**1.270.1 Available under license :**

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Bill Fenner<fenner@research.att.com>
Fulvio Risso<risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler<hannes@juniper.net>
Jun-ichiro itojun Hagino<itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden<Alan@LCS.MIT.EDU>
Alexey Kuznetsov<kuznet@ms2.inr.ac.ru>
Albert Chin<china@thewrittenword.com>
Andrew Brown<atatat@atatdot.net>
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Chris Pepper<pepper@mail.repppe.com>
Darren Reed<darren@reed.wattle.id.au>
David Kaelbling<drk@sgi.com>
David Young<dyoun@ojctech.com>
Don Ebright<Don.Ebright@compuware.com>
Eric Anderson<anderse@hpl.hp.com>
Franz Schaefer<schaefer@mond.at>
Gianluca Varenni<varenni@netgroup-serv.polito.it>
Gisle Vanem<giva@bgnett.no>
Graeme Hewson<ghewson@cix.compulink.co.uk>
Greg Stark<gsstark@mit.edu>
Greg Troxel<gdt@ir.bbn.com>
Guillaume Pelat<endymion_@users.sourceforge.net>
Hyung Sik Yoon<hsyn@kr.ibm.com>
Igor Kristophorov<igor@atdot.org>
Jan-Philip Velders<jpv@veldersjes.net>
Jason R. Thorpe<thorpej@netbsd.org>
Javier Achirica<achirica@ttl.net>
Jean Tourrilhes<jt@hpl.hp.com>
Jefferson Ogata<jogata@nodc.noaa.gov>
Jesper Peterson<jesper@endace.com>
John Bankier<jbankier@rainfinity.com>
Jon Lindgren<joni@yubyub.net>
The original LBL crew:
Steve McCanne
Craig Leres
Van Jacobson

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site:http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu/pub/Linux/libs

shhopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle
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1.280 libtasn1 3.4-3ubuntu0.3 :3ubuntu0.3

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

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

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

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

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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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1.284 libx11 2:1.6.2-1ubuntu2 :1ubuntu2

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.293 log4j 2.8.2

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1.297 log4j-api 2.4.1

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1.316 lucene-backward-codecs 6.4.1

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The snowball stopword lists in
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.354 netty-buffer 4.1.7
1.355 netty-codec 4.1.7

1.356 netty-codec-http 4.1.7

1.357 netty-common 4.1.7

1.358 netty-handler 4.1.7

1.359 netty-resolver 4.1.7

1.360 netty-transport 4.1.7

1.361 newt 0.52.15 :2ubuntu5

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlere@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
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Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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(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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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
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source code from the same place satisfies the requirement to
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Library, but is designed to work with the Library by being compiled or
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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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
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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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<one line to give the library's name and a brief idea of what it does.>
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That's all there is to it!

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1.375 openssh 6.6p1-2ubuntu2 :2ubuntu2

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#undef_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
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLHUP
#endif
#define POLLWRBAND 0x0080
#define POLLRDBAND 0x0080
#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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 */
#endif HAVE_SETRESGID

int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/* Std: 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

#endif
#endif

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3920
/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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1.376 openssh 6.6p1-2ubuntu2.4

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1.380 ops4j-base-io 1.5.0

1.381 ops4j-base-lang 1.5.0

1.382 ops4j-base-monitors 1.5.0

1.383 ops4j-base-net 1.5.0
1.384 ops4j-base-util-collections 1.5.0

1.385 ops4j-base-util-property 1.5.0

1.386 ops4j-base-util-xml 1.5.0

1.387 org-eclipse 3.10.101.v20150820-1432

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1.388 org.apache.aries.blueprint.api 1.0.1

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4.0.7

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4.0.7

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org.apache.servicemix.specs.activation-api

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1.448 org.apache.servicemix.specs.jaxb-api-2.2 2.7.0

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1.449 org.apache.servicemix.specs.jaxp-api-1.4 2.7.0

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1.457 p11-glue 0.20.2-2ubuntu2 :2ubuntu2

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1.460 patch 2.7.1-4ubuntu2.3

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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Written by: Zoltan Herczeg
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Email domain: freemail.hu
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snakeyaml-NOTICE

***The art of simplicity is a puzzle of complexity.***
## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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

That's all there is to it!

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

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the 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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The End

1.475 perl 5.18.2-2ubuntu1.1

1.475.1 Available under license:

```perl
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#----------------------------------------------------------------------#`
```
# Create test distribution
#-------------------------------------------------------------#

{ my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

{ my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);
"META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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 5.18.2

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It is by Paul Hsieh (c) 2004 and is analysed here
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dist/Safe/*
ext/Fcntl/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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use strict;
use Test::More tests => 8;

my $upstream_version;
ok(open(P, "dpkg-parsechangelog |"), "successfully piping from dpkg-parsechangelog output");
while (<P>) {
    /^Version: (.+)-[^-]+$/ or next;
    $upstream_version = $1;
    last;
} isn't($upstream_version, ",", "found upstream version from dpkg-parsechangelog output");
ok(close P, "dpkg-parsechangelog exited normally");
my $checked_version;
ok(open(C, "<debian/copyright"), "successfully opened debian/copyright");
while (<C>) {
    next if !/^ Last checked against: Perl (.+)/;
    $checked_version = $1;
    last;
}
isnt($checked_version, "", "found checked version from debian/copyright");
close C;

is($checked_version, $upstream_version,
   "debian/copyright last checked for the current upstream version");

my $cmd;
if ($?) {
    system('which config-edit >/dev/null 2>&1');
    $cmd = 'config-edit -application dpkg-copyright -ui none';
} else {
    $cmd = 'cme check dpkg-copyright';
}
diag("checking debian/copyright which copyright checker '$cmd'");
unless qx/$cmd 2>&1, qr/error/,
    'no error messages from copyright checker when parsing debian/copyright');
is($?, 0, 'copyright checker exited successfully');

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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 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

1.476 plexus-cipher 1.7
1.477 plexus-component-annotations 1.5.5

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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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1.483 portable_runtime_api 4.13.1-0ubuntu0.14.04.1 :0ubuntu0.14.04.1

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========================

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

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

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The `mod: '_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)
or init_by_array(init_key, key_length).

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Modified by Jack Jansen, CWI, July 1995:
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Original location:
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Solution inspired by code from:
strtod and dtoa

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zlib
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-------

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

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see 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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2.7  2.6  2010  PSF  yes

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1.489 python-pam 0.4.2-13.1ubuntu3

1.489.1 Available under license:
This is the Debian package of a Python PAM module.

This package was put together by Gregor Hoffleit <flight@debian.org>,
from sources obtained from


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1.491 python2.7 2.7.6-8ubuntu0.2

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==============

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

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

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Mersenne Twister
----------------

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.cnr.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
t 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
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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

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Version 2, June 1991

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1.508 rsync 3.1.0-2ubuntu0.1 :2ubuntu0.1
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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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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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That's all there is to it!

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```
1.512  securesm 1.1
```

```
1.513  sed 4.2.2-4ubuntu1 :4ubuntu1
1.513.1  Available under license:

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1.514 selinux 2.2.2-1ubuntu0.1

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/ *
* avcstat - Display SELinux avc statistics.
* *
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* *
*/
#include <stdio.h>
#include <stdlib.h>
#include <libgen.h>
#include <stdarg.h>
#include <errno.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.h>
#include <signal.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <sys/ioctl.h>
#include <linux/limits.h>

#define DEF_STAT_FILE	"/avc/cache_stats"
#define DEF_BUF_SIZE	8192
#define HEADERS	"lookups hits misses allocations reclaims frees"

struct avc_cache_stats {
    unsigned long long lookups;
    unsigned long long hits;
    unsigned long long misses;
    unsigned long long allocations;
    unsigned long long reclaims;
    unsigned long long frees;
};

static int interval;
static int rows;
static char *progname;
static char buf[DEF_BUF_SIZE];

/* selinuxfs mount point */
extern char *selinux_mnt;

static __attribute__((__format__(printf,1,2))) void die(const char *msg, ...)
{
    va_list args;

    fputs("ERROR: ", stderr);

    va_start(args, msg);
    vfprintf(stderr, msg, args);
    va_end(args);

    if (errno)
        fprintf(stderr, ": %s", strerror(errno));

    fputc(\'\n\', stderr);
    exit(1);
static void usage(void)
{
    printf("Usage: %s [-c] [-f status_file] [interval]\n\n", progname);
    printf("Display SELinux AVC statistics. If the interval parameter is specified, the\n");
    printf("program will loop, displaying updated statistics every \interval\ seconds \n");
    printf("Relative values are displayed by default. Use the -c option to specify the\n");
    printf("Display of cumulative values. The -f option specifies the location of the\n");
    printf("AVC statistics file, defaulting to \%s%s\n\n", selinux_mnt,
        DEF_STAT_FILE);
}

static void set_window_rows(void)
{
    int ret;
    struct winsize ws;

    ret = ioctl(fileno(stdout), TIOCGWINSZ, &ws);
    if (ret < 0 || ws.ws_row < 3)
        ws.ws_row = 24;
    rows = ws.ws_row;
}

static void sighandler(int num)
{
    if (num == SIGWINCH)
        set_window_rows();
}

int main(int argc, char **argv)
{
    struct avc_cache_stats tot, rel, last;
    int fd, i, cumulative = 0;
    struct sigaction sa;
    char avcstatfile[PATH_MAX];
    snprintf(avcstatfile, sizeof avcstatfile, "%s%s", selinux_mnt,
        DEF_STAT_FILE);
    progname = basename(argv[0]);

    memset(&last, 0, sizeof(last));

    while ((i = getopt(argc, argv, "cf:h?-")) != -1) {
        switch (i) {
case 'c':
cumulative = 1;
break;
case 'f':
strncpy(avcstatfile, optarg, sizeof avcstatfile);
break;
case 'h':
case '-':
usage();
exit(0);
default:
usage();
die("unrecognized parameter '%c', i");
}
}

if (optind < argc) {
    char *arg = argv[optind];
    unsigned int n = strtoul(arg, NULL, 10);

    if (errno == ERANGE) {
        usage();
die("invalid interval \%s", arg);
    } if (n == 0) {
        usage();
        exit(0);
    } interval = n;
}

sa.sa_handler = sighandler;
sa.sa_flags = SA_RESTART;
sigemptyset(&sa.sa_mask);

i = sigaction(SIGWINCH, &sa, NULL);
if (i < 0)
die("sigaction");

set_window_rows();
fd = open(avcstatfile, O_RDONLY);
if (fd < 0)
die("open: \%s", avcstatfile);

for (i = 0; i++)
    char *line;
    ssize_t ret, parsed = 0;

    if (ret > 0) {
        sscanf(line, "\%s\", &parsed);
        if (parsed > 0)
            cumulative = 1;
        else
            cumulative = 0;
    }
memset(buf, 0, DEF_BUF_SIZE);
ret = read(fd, buf, DEF_BUF_SIZE-1);
if (ret < 0)
die("read");

if (ret == 0)
die("read: \%s\: unexpected end of file",
    avcstatfile);

line = strtok(buf, "\n");
if (!line)
die("unable to parse \%s\: end of line not found",
    avcstatfile);

if (strcmp(line, HEADERS))
die("unable to parse \%s\: invalid headers",
    avcstatfile);

if (li || !(i % (rows - 2)))
printf("%10s %10s %10s %10s %10s %10s
", "lookups",
    "hits", "misses", "allocs", "reclaims", "frees");
memset(&tot, 0, sizeof(tot));

while ((line = strtok(NULL, "\n"))) {
struct avc_cache_stats tmp;

ret = sscanf(line, "%llu %llu %llu %llu %llu %llu",
    &tmp.lookups,
    &tmp.hits,
    &tmp.misses,
    &tmp.allocations,
    &tmp.reclaims, &tmp.frees);
if (ret != 6)
die("unable to parse \%s\: scan error",
    avcstatfile);

tot.lookups += tmp.lookups;
tot.hits += tmp.hits;
tot.misses += tmp.misses;
tot.allocations += tmp.allocations;
tot.reclaims += tmp.reclaims;
tot.frees += tmp.frees;
parsed = 1;
}

if (!parsed)
die("unable to parse \%s\: no data", avcstatfile);
if (cumulative || !cumulative && !i))
    printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
            tot.lookups, tot.hits, tot.misses,
            tot.allocations, tot.reclaims, tot.frees);
else {
    rel.lookups = tot.lookups - last.lookups;
    rel.hits = tot.hits - last.hits;
    rel.misses = tot.misses - last.misses;
    rel.allocations = tot.allocations - last.allocations;
    rel.reclaims = tot.reclaims - last.reclaims;
    rel.frees = tot.frees - last.frees;
    printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
            rel.lookups, rel.hits, rel.misses,
            rel.allocations, rel.reclaims, rel.frees);
}

if (!interval)
    break;

memcpy(&last, &tot, sizeof(last));
sleep(interval);

ret = lseek(fd, 0, 0);
if (ret < 0)
    die("lseek");
}

close(fd);
return 0;

1.515 servlet-api 2.5
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 *
 */
package org.slf4j;
import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing [link Marker] instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * [link IMarkerFactory] instance bound at compile time.
 * 
 */
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }

    /**
     * Return a Marker instance as specified by the name parameter using the
     * previously bound {@link IMarkerFactory} instance.
     *
     * @param name The name of the {@link Marker} object to return.
     * @return marker
     */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

    /**
     * Create a marker which is detached (even at birth) from the MarkerFactory.
     *
     * @param name the name of the marker
     * @return a dangling marker
     * @since 1.5.1
     */
    public static Marker getDetachedMarker(String name) {
        return markerFactory.getDetachedMarker(name);
    }

    /**
     * Return the {@link IMarkerFactory} instance in use.
     */
* The IMarkerFactory instance is usually bound with this class at
* compile time.
*
* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

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 *
 */
package org.slf4j.helpers;

import java.io.ObjectStreamException;
import java.io.Serializable;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this
 * class establishes deserialization behavior. See @see #readResolve.
 *
 * @author Ceki Gulcu
 * @since 1.5.3
 */
abstract class NamedLoggerBase implements Logger, Serializable {

private static final long serialVersionUID = 7535258609338176893L;

protected String name;

public String getName() {
    return name;
}

/**
 * Replace this instance with a homonymous (same name) logger returned
 * by LoggerFactory. Note that this method is only called during
 * deserialization.
 *
 * @return logger with same name as returned by LoggerFactory
 * @throws ObjectStreamException
 */
protected Object readResolve() throws ObjectStreamException {
// using getName() instead of this.name works even for
// NOPLogger
return LoggerFactory.getLogger(getName());
}
}
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Spring Boot CLI

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The primary ANTLR guy:

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1.551 spring-boot-autoconfigure 1.4.1

1.552 spring-boot-autoconfigure 1.5.0
1.553 spring-boot-autoconfigure 1.3.3

1.554 spring-boot-starter 1.3.3

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1.556 spring-boot-starter 1.4.1.Release

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1.558 spring-boot-starter-log4j2 1.3.3

1.559 spring-boot-starter-logging 1.4.1
1.560 spring-boot-starter-logging 1.3.3

1.561 spring-boot-starter-test 1.3.3

1.562 spring-boot-starter-validation 1.3.3

1.563 spring-context 4.3.3.RELEASE

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

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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Warburton, John
Webb, Kirk
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Wieringen, Marco van
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jloup@gzip.org          madler@alumni.caltech.edu

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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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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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.

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specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.598 t-digest 3.0

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1.599 tar 1.27.1-1

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This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:


More recently, I'm directly using the upstream source repository at

http://git.savannah.gnu.org/cgit/tar.git

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1.600 tcpdump 4.5.1-2ubuntu1.2

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Current upstream maintainers:
Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
Andrew Brown <atatat@atatdot.net>
Antti Kantee <pooka@netbsd.org>
Arkadiusz Miskiewicz <misiek@pld.org.pl>
Armando L. Caro Jr. <acaro@mail.eecs.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach <ginsbach@cray.com>
Charles M. Hannum <mycroft@netbsd.org>
Chris G. Demetriou <cgd@netbsd.org>
Chris Pepper <pepper@mail.repppe.com>
Darren Reed <darrenr@reed.wattle.id.au>
David Kaelbling <drk@sgi.com>
Stefan Hudson<hudson@mbay.net>
Takashi Yamamoto<yamt@mwd.biglobe.ne.jp>
Tony Li<tl@procket.com>
Torsten Landschoff <torsten@debian.org>
Uns Lider<unslider@miranda.org>
Uwe Girlich<Uwe.Girlich@philosys.de>
Xianjie Zhang<xzhang@cup.hp.com>
Yen Yen Lim
Yoann Vandoorselaere<yoann@prelude-ids.org>

The original LBL crew:
Steve McCanne
Craig Leres
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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snakeyaml-NOTICE
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***The art of simplicity is a puzzle of complexity.***
## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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***The art of simplicity is a puzzle of complexity.***

## Overview ##
[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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snakeyaml-NOTICE

***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
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1.606 unzip 6.0-9ubuntu1.5
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There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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releases altogether.)

The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
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*
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*
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71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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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 CONTRIBS 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.

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.612 vim 2:7.4.052-1ubuntu3 :1ubuntu3

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*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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http://iccf-holland.org/
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You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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==============================================================================
Kibaale Children's Centre		*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one
of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children’s Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
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
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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 (XPM - X PixMap format version 2 & 3)
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 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
This is the Debian pre-packaged version of vim. Vim is an almost compatible
version of the UNIX editor Vi. Many new features have been added: multi level
undo, syntax highlighting, command line history, on-line help, filename
completion, block operations, etc.

This package was put together by Wichert Akkerman <wakkerma@debian.org> from
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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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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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function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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"
Nd implementations of singly-linked lists, singly-linked tail queues, lists and tail queues

**SYNOPSIS**

In `sys/queue.h`

```
\nlst_empty
\nlst_entry
\nlst_first
\nlst_foreach
\nlst_foreach_safe
\nlst_head
\nlst_head_initializer
\nlst_init
\nlst_insert_after
\nlst_insert_before
\nlst_insert_head
\nlst_insert_tail
\nlst_next
\nlst_prev
\nlst_remove_after
\nlst_remove_head
\nlst_remove
\nlst_swap
\nlst_concat
\nlst_empty
\nlst_entry
\nlst_first
\nlst_foreach
\nlst_foreach_safe
\nlst_head
\nlst_head_initializer
\nlst_init
\nlst_insert_after
\nlst_insert_before
\nlst_insert_head
\nlst_insert_tail
\nlst_next
\nlst_prev
\nlst_remove_after
\nlst_remove_head
\nlst_remove
\nlst_swap
\nlst_concat
```

---

**Open Source Used In Ultra Services Platform Version N6.1**

5606
.Fn STAILQ_FOREACH "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
.Fn STAILQ_FOREACH_SAFE "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn STAILQ_HEAD "HEADNAME" "TYPE"
.Fn STAILQ_HEAD_INITIALIZER "STAILQ_HEAD head"
.Fn STAILQ_INIT "STAILQ_HEAD *head"
.Fn STAILQ_INSERT_AFTER "STAILQ_HEAD *head" "TYPE *listelm" "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_INSERT_HEAD "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_INSERT_TAIL "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_LAST "STAILQ_HEAD *head" "TYPE" "STAILQ_ENTRY NAME"
.Fn STAILQ_NEXT "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_REMOVE_AFTER "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_REMOVE_HEAD "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
.Fn STAILQ_REMOVE "STAILQ_HEAD *head" "TYPE *elm" "TYPE" "STAILQ_ENTRY NAME"
.Fn STAILQ_SWAP "STAILQ_HEAD *head1" "STAILQ_HEAD *head2" "STAILQ_ENTRY NAME"
"
.Fn LIST_EMPTY "LIST_HEAD *head"
.Fn LIST_ENTRY "TYPE"
.Fn LIST_FIRST "LIST_HEAD *head"
.Fn LIST_FOREACH "TYPE *var" "LIST_HEAD *head" "LIST_ENTRY NAME"
.Fn LIST_FOREACH_SAFE "TYPE *var" "LIST_HEAD *head" "LIST_ENTRY NAME" "TYPE *temp_var"
.Fn LIST_HEAD "HEADNAME" "TYPE"
.Fn LIST_HEAD_INITIALIZER "LIST_HEAD head"
.Fn LIST_INIT "LIST_HEAD *head"
.Fn LIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "LIST_ENTRY NAME"
.Fn LIST_INSERT_BEFORE "TYPE *listelm" "TYPE *elm" "LIST_ENTRY NAME"
.Fn LIST_INSERT_HEAD "LIST_HEAD *head" "TYPE *elm" "LIST_ENTRY NAME"
.Fn LIST_NEXT "TYPE *elm" "LIST_ENTRY NAME"
.Fn LIST_REMOVE "TYPE *elm" "LIST_ENTRY NAME"
.Fn LIST_SWAP "LIST_HEAD *head1" "LIST_HEAD *head2" "TYPE" "LIST_ENTRY NAME"
"
.Fn TAILQ_CONCAT "TAILQ_HEAD *head1" "TAILQ_HEAD *head2" "TAILQ_ENTRY NAME"
.Fn TAILQ_EMPTY "TAILQ_HEAD *head"
.Fn TAILQ_ENTRY "TYPE"
.Fn TAILQ_FIRST "TAILQ_HEAD *head"
.Fn TAILQ_FOREACH "TYPE *var" "TAILQ_HEAD *head" "TAILQ_ENTRY NAME"
.Fn TAILQ_FOREACH_SAFE "TYPE *var" "TAILQ_HEAD *head" "TAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn TAILQ_FOREACH_REVERSE "TYPE *var" "TAILQ_HEAD *head" "HEADNAME" "TAILQ_ENTRY NAME"
.Fn TAILQ_FOREACH_REVERSE_SAFE "TYPE *var" "TAILQ_HEAD *head" "HEADNAME" "TAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn TAILQ_HEAD "HEADNAME" "TYPE"
.Fn TAILQ_HEAD_INITIALIZER "TAILQ_HEAD head"
.Fn TAILQ_INIT "TAILQ_HEAD *head"
.Fn TAILQ_INSERT_AFTER "TAILQ_HEAD *head" "TYPE *listelm" "TYPE *elm" "TAILQ_ENTRY NAME"
.Fn TAILQ_INSERT_BEFORE "TYPE *listelm" "TYPE *elm" "TAILQ_ENTRY NAME"
These macros define and operate on four types of data structures: singly-linked lists, singly-linked tail queues, lists, and tail queues. All four structures support the following functionality:

- Insertion of a new entry at the head of the list.
- Insertion of a new entry after any element in the list.
- O(1) removal of an entry from the head of the list.
- Forward traversal through the list.
- Swapping the contents of two lists.

Singly-linked lists are the simplest of the four data structures and support only the above functionality. Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue. Singly-linked lists add the following functionality:

- O(n) removal of any entry in the list.

Singly-linked tail queues add the following functionality:

- Entries can be added at the end of a list.
- O(n) removal of any entry in the list.
- They may be concatenated.

However:
All list insertions must specify the head of the list.

Each head entry requires two pointers rather than one.

Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

Singly-linked tailqs are ideal for applications with large datasets and few or no removals, or for implementing a FIFO queue.

All doubly linked types of data structures (lists and tail queues) additionally allow:

- Insertion of a new entry before any element in the list.
- O(1) removal of any entry in the list.

However:

Each element requires two pointers rather than one.

Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.

Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.

Tail queues add the following functionality:

 Entries can be added at the end of a list.
 They may be traversed backwards, from tail to head.
 They may be concatenated.

However:

All list insertions and removals must specify the head of the list.

Each head entry requires two pointers rather than one.
Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

In the macro definitions,

```
.Fa TYPE
```

is the name of a user defined structure, that must contain a field of type

```
.Li SLIST_ENTRY ,
.Li STAILQ_ENTRY ,
.Li LIST_ENTRY ,
```
or

```
.Li TAILQ_ENTRY ,
```
named

```
.Fa NAME .
```
The argument

```
.Fa HEADNAME
```
is the name of a user defined structure that must be declared using the macros

```
.Li SLIST_HEAD ,
.Li STAILQ_HEAD ,
.Li LIST_HEAD ,
```
or

```
.Li TAILQ_HEAD .
```
See the examples below for further explanation of how these macros are used.

```
.Sh SINGLY-LINKED LISTS
```
A singly-linked list is headed by a structure defined by the

```
.Nm SLIST_HEAD
```
macro.

This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements.
New elements can be added to the list after an existing element or at the head of the list.

An

```
.Fa SLIST_HEAD
```
structure is declared as follows:

```
.Bd -literal -offset indent
SLIST_HEAD(HEADNAME, TYPE) head;
.Ed
```

where

```
.Fa HEADNAME
```
is the name of the structure to be defined, and

```
.Fa TYPE
```
is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:

```
struct HEADNAME *headp;
```

(The names `head` and `headp` are user selectable.)

The macro `SLIST_HEAD_INITIALIZER` evaluates to an initializer for the list `head`.

The macro `SLIST_EMPTY` evaluates to true if there are no elements in the list.

The macro `SLIST_ENTRY` declares a structure that connects the elements in the list.

The macro `SLIST_FIRST` returns the first element in the list or NULL if the list is empty.

The macro `SLIST_FOREACH` traverses the list referenced by `head` in the forward direction, assigning each element in turn to `var`.

The macro `SLIST_FOREACH_SAFE` traverses the list referenced by `head` in the forward direction, assigning each element in turn to `var`. However, unlike `SLIST_FOREACH` here it is permitted to both remove `var`
as well as free it from within the loop safely without interfering with the traversal.

The macro

\texttt{SLIST\_INIT}

initializes the list referenced by

\texttt{head}.

The macro

\texttt{SLIST\_INSERT\_HEAD}

inserts the new element

\texttt{elm}

at the head of the list.

The macro

\texttt{SLIST\_INSERT\_AFTER}

inserts the new element

\texttt{elm}

after the element

\texttt{listelm}.

The macro

\texttt{SLIST\_NEXT}

returns the next element in the list.

The macro

\texttt{SLIST\_REMOVE\_AFTER}

removes the element after

\texttt{elm}

from the list. Unlike

\texttt{SLIST\_REMOVE},

this macro does not traverse the entire list.

The macro

\texttt{SLIST\_REMOVE\_HEAD}

removes the element

\texttt{elm}

from the head of the list.

For optimum efficiency, elements being removed from the head of the list should explicitly use this macro instead of the generic

\texttt{SLIST\_REMOVE} macro.
from the list.

The macro

swaps the contents of

and

.

Sh SINGLY-LINKED LIST EXAMPLE

SLIST_HEAD(slisthead, entry) head =
    SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp;/* Singly-linked List head. */
struct entry {
    ...
    SLIST_ENTRY(entry) entries;/* Singly-linked List. */
    ...
} *n1, *n2, *n3, *np;

SLIST_INIT(&head);/* Initialize the list. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);

SLIST_REMOVE(&head, n2, entry, entries);/* Deletion. */
free(n2);

n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries);/* Deletion from the head. */
free(n3);
/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
np-> ...
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    SLIST_REMOVE(&head, np, entry, entries);
    free(np);
}

while (!SLIST_EMPTY(&head)) { /* List Deletion. */
    n1 = SLIST_FIRST(&head);
    SLIST_REMOVE_HEAD(&head, entries);
    free(n1);
A singly-linked tail queue is headed by a structure defined by the \texttt{STAILQ\_HEAD} macro. This structure contains a pair of pointers, one to the first element in the tail queue and the other to the last element in the tail queue. The elements are singly linked for minimum space and pointer manipulation overhead at the expense of $O(n)$ removal for arbitrary elements. New elements can be added to the tail queue after an existing element, at the head of the tail queue, or at the end of the tail queue.

A \texttt{STAILQ\_HEAD} structure is declared as follows:

\begin{verbatim}
STAILQ\_HEAD(HEADNAME, TYPE) head;
\end{verbatim}

where\texttt{HEADNAME}\ is the name of the structure to be defined, and\texttt{TYPE}\ is the type of the elements to be linked into the tail queue. A pointer to the head of the tail queue can later be declared as:

\begin{verbatim}
struct HEADNAME *headp;
\end{verbatim}

(The names\texttt{head} and\texttt{headp}\ are user selectable.)

The macro \texttt{STAILQ\_HEAD\_INITIALIZER} evaluates to an initializer for the tail queue

\begin{verbatim}
STAILQ\_HEAD_INITIALIZER head
\end{verbatim}

The macro \texttt{STAILQ\_CONCAT} concatenates the tail queue headed by

\begin{verbatim}
head2
\end{verbatim}

onto the end of the one headed by

\begin{verbatim}
head1
\end{verbatim}
removing all entries from the former.

The macro
.Nm STAILQ_EMPTY
evaluates to true if there are no items on the tail queue.

The macro
.Nm STAILQ_ENTRY
declares a structure that connects the elements in
the tail queue.

The macro
.Nm STAILQ_FIRST
returns the first item on the tail queue or NULL if the tail queue
is empty.

The macro
.Nm STAILQ_FOREACH
traverses the tail queue referenced by
.Fa head
in the forward direction, assigning each element
in turn to
.Fa var .

The macro
.Nm STAILQ_FOREACH_SAFE
traverses the tail queue referenced by
.Fa head
in the forward direction, assigning each element
in turn to
.Fa var . However, unlike
.Fn STAILQ_FOREACH
here it is permitted to both remove
.Fa var
as well as free it from within the loop safely without interfering with the
traversal.

The macro
.Nm STAILQ_INIT
initializes the tail queue referenced by
.Fa head .

The macro
.Nm STAILQ_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the tail queue.
The macro \texttt{STAILQ\_INSERT\_TAIL} inserts the new element \texttt{elm} at the end of the tail queue.

The macro \texttt{STAILQ\_INSERT\_AFTER} inserts the new element \texttt{elm} after the element \texttt{listelm}.

The macro \texttt{STAILQ\_LAST} returns the last item on the tail queue. If the tail queue is empty the return value is \texttt{NULL}.

The macro \texttt{STAILQ\_NEXT} returns the next item on the tail queue, or \texttt{NULL} this item is the last.

The macro \texttt{STAILQ\_REMOVE\_AFTER} removes the element after \texttt{elm} from the tail queue. Unlike \texttt{STAILQ\_REMOVE}, this macro does not traverse the entire tail queue.

The macro \texttt{STAILQ\_REMOVE\_HEAD} removes the element at the head of the tail queue. For optimum efficiency, elements being removed from the head of the tail queue should use this macro explicitly rather than the generic macro.

The macro \texttt{STAILQ\_REMOVE} removes the element \texttt{elm} from the tail queue.
.Nm STAILQ_SWAP
swaps the contents of
.Fa head1
and
.Fa head2.
.Sh SINGLY-LINKED TAIL QUEUE EXAMPLE
.Bd -literal
STAILQ_HEAD(stailhead, entry) head =
    STAILQ_HEAD_INITIALIZER(head);
struct stailhead *headp;/* Singly-linked tail queue head. */
struct entry {
    ...
    STAILQ_ENTRY(entry) entries;/* Tail queue. */
    ...
} *n1, *n2, *n3, *np;

STAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);
n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);
n2 = malloc(sizeof(struct entry));/* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);
/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);
/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);
/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    STAILQ_REMOVE(&head, np, entry, entries);
    free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {
    n1 = STAILQ_FIRST(&head);
    STAILQ_REMOVE_HEAD(&head, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
n1 = STAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = STAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
STAILQ_INIT(&head);

A list is headed by a structure defined by the
LIST_HEAD macro.
This structure contains a single pointer to the first element
on the list.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the list.
New elements can be added to the list after an existing element,
before an existing element, or at the head of the list.
A LIST_HEAD structure is declared as follows:

```
LIST_HEAD(HEADNAME, TYPE) head;
```

where
HEADNAME is the name of the structure to be defined, and
TYPE is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:

```
struct HEADNAME *headp;
```

(The names
head and
headp are user selectable.)

The macro
LIST_HEAD_INITIALIZER evaluates to an initializer for the list
head.
The macro

.Nm LIST_EMPTY

evaluates to true if there are no elements in the list.

.Pp

The macro

.Nm LIST_ENTRY

declares a structure that connects the elements in
the list.

.Pp

The macro

.Nm LIST_FIRST

returns the first element in the list or NULL if the list
is empty.

.Pp

The macro

.Nm LIST_FOREACH

traverses the list referenced by

.Fa head

in the forward direction, assigning each element in turn to

.Fa var .

.Pp

The macro

.Nm LIST_FOREACH_SAFE

traverses the list referenced by

.Fa head

in the forward direction, assigning each element in turn to

.Fa var .

However, unlike

.Fn LIST_FOREACH

here it is permitted to both remove

.Fa var

as well as free it from within the loop safely without interfering with the
traversal.

.Pp

The macro

.Nm LIST_INIT

initializes the list referenced by

.Fa head .

.Pp

The macro

.Nm LIST_INSERT_HEAD

inserts the new element

.Fa elm

at the head of the list.

.Pp

The macro

.Nm LIST_INSERT_AFTER

inserts the new element
The macro `LIST_INSERT_BEFORE` inserts the new element after the element.

The macro `LIST_NEXT` returns the next element in the list, or NULL if this is the last.

The macro `LIST_REMOVE` removes the element from the list.

The macro `LIST_SWAP` swaps the contents of `head1` and `head2`.

```c
LIST_HEAD(listhead, entry) head =
    LIST_HEAD_INITIALIZER(head);
struct listhead *headp;/* List head. */
struct entry {
    ...
    LIST_ENTRY(entry) entries;/* List. */
    ...
} *n1, *n2, *n3, *np, *np_temp;

LIST_INIT(&head);/* Initialize the list. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
LIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
LIST_INSERT_AFTER(n1, n2, entries);

n3 = malloc(sizeof(struct entry));/* Insert before. */
LIST_INSERT_BEFORE(n2, n3, entries);
```
LIST_REMOVE(n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
LIST_FOREACH(np, &head, entries)
    np-> ...

/* Safe forward traversal. */
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    LIST_REMOVE(np, entries);
    free(np);
}
while (!LIST_EMPTY(&head)) { /* List Deletion. */
n1 = LIST_FIRST(&head);
    LIST_REMOVE(n1, entries);
    free(n1);
}

n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
    n2 = LIST_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where

.Li HEADNAME
is the name of the structure to be defined, and

.Li TYPE
is the type of the elements to be linked into the tail queue.

A pointer to the head of the tail queue can later be declared as:

.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed

.Pp
(The names

.Li head
and

.Li headp
are user selectable.)

.Pp
The macro

.Nm TAILQ_HEAD_INITIALIZER
evaluates to an initializer for the tail queue.

.Fa head

.Pp
The macro

.Nm TAILQ_CONCAT
concatenates the tail queue headed by

.Fa head2
onto the end of the one headed by

.Fa head1
removing all entries from the former.

.Pp
The macro

.Nm TAILQ_EMPTY
evaluates to true if there are no items on the tail queue.

.Pp
The macro

.Nm TAILQ_ENTRY
declares a structure that connects the elements in
the tail queue.

.Pp
The macro

.Nm TAILQ_FIRST
returns the first item on the tail queue or NULL if the tail queue
is empty.

.Pp
The macro

.Nm TAILQ_FOREACH
traverses the tail queue referenced by

.Fa head
in the forward direction, assigning each element in turn to
The variable \texttt{var} is set to \texttt{NULL} if the loop completes normally, or if there were no elements.

The macro \texttt{TAILQ_FOREACH_REVERSE} traverses the tail queue referenced by \texttt{head} in the reverse direction, assigning each element in turn to \texttt{var}.

The macros \texttt{TAILQ_FOREACH_SAFE} and \texttt{TAILQ_FOREACH_REVERSE_SAFE} traverse the list referenced by \texttt{head} in the forward or reverse direction respectively, assigning each element in turn to \texttt{var}.

However, unlike their unsafe counterparts, \texttt{TAILQ_FOREACH} and \texttt{TAILQ_FOREACH_REVERSE} permit to both remove \texttt{var} as well as free it from within the loop safely without interfering with the traversal.

The macro \texttt{TAILQ_INIT} initializes the tail queue referenced by \texttt{head}.

The macro \texttt{TAILQ_INSERT_HEAD} inserts the new element \texttt{elm} at the head of the tail queue.

The macro \texttt{TAILQ_INSERT_TAIL} inserts the new element \texttt{elm} at the end of the tail queue.
The macro
.Nm TAILQ_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm
.
.Pp
The macro
.Nm TAILQ_INSERT_BEFORE
inserts the new element
.Fa elm
before the element
.Fa listelm
.
.Pp
The macro
.Nm TAILQ_LAST
returns the last item on the tail queue.
If the tail queue is empty the return value is
.Dv NULL
.
.Pp
The macro
.Nm TAILQ_NEXT
returns the next item on the tail queue, or NULL if this item is the last.
.
.Pp
The macro
.Nm TAILQ_PREV
returns the previous item on the tail queue, or NULL if this item is the first.
.
.Pp
The macro
.Nm TAILQ_REMOVE
removes the element
.Fa elm
from the tail queue.
.
.Pp
The macro
.Nm TAILQ_SWAP
swaps the contents of
.Fa head1
and
.Fa head2
.
.Sh TAIL QUEUE EXAMPLE
.Bd -literal
TAILQ_HEAD(tailhead, entry) head =
    TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp;/* Tail queue head. */
struct entry {
...
TAILQ_ENTRY(entry) entries;/* Tail queue. */
...
} *n1, *n2, *n3, *np;

TAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry));/* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries);/* Deletion. */
free(n2);
/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
np-> ...
/* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
TAILQ_REMOVE(&head, np, entries);
free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
np-> ...
/* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
  n1 = TAILQ_FIRST(&head);
  TAILQ_REMOVE(&head, n1, entries);
  free(n1);
}
/* Faster TailQ Deletion. */
n1 = TAILQ_FIRST(&head);
while (n1 != NULL) {
  n2 = TAILQ_NEXT(n1, entries);
  free(n1);
  n1 = n2;
}
TAILQ_INIT(&head);
.Ed
.Sh SEE ALSO
.Xr tree 3
.Sh HISTORY
The
.Nm queue
functions first appeared in
.Bx 4.4 .
#!/usr/bin/perl -p
#
# This script is part of the Xen build system. It has a very
# permissive licence to avoid complicating the licence of the
# generated header file and to allow this seddery to be reused by
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#
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our $namespace, $ucnamespace;

BEGIN {
  die unless @ARGV;
  $namespace = pop @ARGV;
  $namespace =~ s/^--prefix=// or die;
  $ucnamespace = uc $namespace;

  print <<END or die $!:
  /*
   * DO NOT EDIT THIS FILE
   */

END

* Generated automatically by bsd-sys-queue-h-seddery to
* - introduce $\{\text{ucnamespace}\}_\text{ and }$\{\text{namespace}\}_\text{ namespace prefixes}
* - turn "struct type" into "type" so that type arguments
* to the macros are type names not struct tags
* - remove the reference to sys/cdefs.h, which is not needed
* 
* The purpose of this seddery is to allow the resulting file to be
* freely included by software which might also want to include other
* list macros; to make it usable when struct tags are not being used
* or not known; to make it more portable.
*/
END
}

s/\b( _SYS_QUEUE | SLIST | LIST | STAILQ | TAILQ | QUEUE
 )/$\{\text{ucnamespace}\}_\1/xg;

s/\b( TRACEMENTBUF | TRASHIT |
 QMD_
 )/$\{\text{ucnamespace}\}_\1/xg;

s/\b( qm_
 )/$\{\text{namespace}\}_\1/xg;

s/\b struct \s+ type \b/type/xg;

s,^\#include.*sys/cdefs.*,/* $& */,xg;

s/\b( NULL )/0/xg;

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XML APIs 1.0.b2

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1.633 zlib 1.2.3
1.633.1 Available under license:
License attached
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
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://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.634 zlib 1.2.8.dfsg-1ubuntu1 :1ubuntu1
1.635 zlib 1.2.7

1.635.1 Available under license:

interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

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1.636 zookeeper 3.4.9

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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