Open Source Used In Ultra Services Platform

Version N5.7

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1.9 aether-transport-wagon 1.0.2.v20150114 :v20150114

1.10 aether-util 1.0.2.v20150114 :v20150114

1.11 aggs-matrix-stats 5.2.2

1.12 ant-junit4 1.8.4
1.12.1 Available under license:

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1.13 antlr4-runtime 4.5.1-1 :1

1.14 apache 2.4.7-1ubuntu4.18 :1ubuntu4.18
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For the server\util_md5.c component:

/******************************************************************************************
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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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For the test/zb.c component:

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

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

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

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

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

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

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

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

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

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

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

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

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

Contributors to this code include:

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

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

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

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

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

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

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

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

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

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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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
This file is generated from xml source: DO NOT EDIT
X
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
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1.29 asm-commons 5.0.4

1.30 asm-debug-all 5.1

1.31 asm-tree 5.0.4

1.32 audit 2.3.2-2ubuntu1

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1.34 avahi 0.6.31 :4ubuntu1.1
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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

exit 0

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1.35 bash 4.3-7ubuntu1.5 :7ubuntu1.5
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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash:ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz

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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>
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>

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>
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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
3a0982da308228d796df35f98d787c5c5f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above
  </xsl:variable>
</xsl:stylesheet>
1.40 bridge-utils 1.5-6ubuntu2 :6ubuntu2

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1.42 byte-buddy 1.6.5

1.43 byte-buddy-agent 1.6.5

1.44 byte-buddy-dep 1.6.5

1.45 bzip2 1.0.6-5 :5
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.46 ceph 0.80.11-0ubuntu1.14.04.2
:0ubuntu1.14.04.2

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1.78 curl 7.35.0-1ubuntu2.5
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krb4
While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.79 cwidget 0.5.16-3.5ubuntu1

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1.84 dhcp 4.2.4-7ubuntu12.3 :7ubuntu12.3

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c5f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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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) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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That's all there is to it!
1.93 e2fsprogs 1.42.9-3ubuntu1.3

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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Theodore Ts'o
23-June-2007

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

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Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/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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** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

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

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

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

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- adding support for the Debian package maintenance scheme, by adding various debian/* files.
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- 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)
* [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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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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OSXAdapter

Version: 2.0

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Charset detection code from ICU4J (http://site.icu-project.org/)

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JUnRAR (https://github.com/edmund-wagner/junrar/)

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Written by: Philip Hazel
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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
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).

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The original packager is Adam Di Carlo <aph@debian.org>. The current
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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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

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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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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Version 2.1, February 1999

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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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(For example, a function in a library to compute square roots has
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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

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
  at


  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>', e.g. `hyphen.de' or
  `hyphen.uk'.

  See the file itself for a copyright notice.

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


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

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
  can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

   http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
   http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

   http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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This is the Debian GNU/Linux prepackaged version of the GNU groff
document formatting system.
GNU groff was written by James Clark <jjc@jclark.com>.
It is now maintained by Ted Harding <ted.harding@nessie.mcc.ac.uk> and
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/>:
48fa768dd6fdeeb7968041dd5ae8e2b02 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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This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some
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> 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.

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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:

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under
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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:

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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

frhyph.tex % French hyphenation patterns
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% This file is available for free and can used and redistributed as is for free. Modified versions should have another name.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% \message{frhyph.tex - French hyphenation patterns (V2.11) <2002/01/16>}

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1.134 grub2 2.02-beta2 :9ubuntu1.7
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1.135 gs-collections 5.1.0

1.136 gs-collections-api 5.1.0

1.137 Gson 2.3.1

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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 type is one of the nine
 * primitive-wrapper types, such as 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 type if it is a primitive
 * type; otherwise returns 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 type if it is a
 * wrapper type; otherwise returns type itself. Idempotent.
 * <pre>
 * unwrap(Integer.class) == int.class
 * unwrap(int.class) == int.class
 * unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
  // cast is safe: long.class and Long.class are both of type Class<Long>
  @SuppressWarnings("unchecked")
  Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get($Gson$Preconditions.checkNotNull(type));
  return (unwrapped == null) ? type : unwrapped;
}

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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its purpose remains meaningful.

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

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

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

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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.

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

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

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

That's all there is to it!
/* GStreamer
 * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
 *
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 */
This is a demuxer supporting a subset of the Quicktime video container format developed by Apple. Apple and others have some patents on some features of the Quicktime container format in regards to technologies such as QuicktimeVR and RTP hinting. Due to that be aware that if ever such features are added to this demuxer it would need to be moved to the "ugly" module or those features need to come as add-in functionality stored in another module.

As the plugin is as of today's date (19th of June 2007) it does not violate any software patents we know of.

*/

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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/)
cdparanoia libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec libdts (http://www.videolan.org/dtsdec.html)
dvnavsrc libdvnav (http://dvd.sourceforge.net/)
dxr3 (http://dxr3.sourceforge.net/)
iececastsend libshout (http://www.icecast.org)
mad libmad (http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec libmpeg2 (http://libmpeg2.sourceforge.net/)
mpeg2enc libmpeg2enc (http://mpeg.sourceforge.net/)
mp3dec libmp3 (http://mpeg.sourceforge.net/)
siddec libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/)
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:

dvreadsrc libdvread (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:

alsa alsalib (http://alsa-project.org/)
artsdsink aRts (http://arts-project.org/)
cacasink libcaca (http://sam.zoy.org/projects/libcaca/)
colorspace libcolorspspace
dvdec libdv (http://libdv.sourceforge.net/)
esdmon,edsink 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/)
hermescolorspace Hermes (http://www.clanlib.org/hermes/)
kio KDE (http://www.kde.org/)
ladspa (http://www.ladspa.org/)
lame libmp3lame (http://lame.sourceforge.net/)
libvisual libsndfile (http://www.mega-nerd.com/libsndfile/)
mikmod libmikmod (http://mikmod.raphnet.net/)
ossaudio (http://www.opensound.com/)
qcamsrc
rfbenc librfb
sdlvideosink libSDL (http://www.libsdl.org/)
shout2send libshout2 (http://www.icecast.org)
smoothwave
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
xvimagesink libXv
- license: MIT X11 / X Consortium license

gsm libgs 
- 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
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 *
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

/**
 * 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>
  */

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#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,
  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, 
GST_TYPE_AUDIO_FILTER, DEBUG_INIT);

static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify * 
filter, gint clipping, gint format, gint width);
static void gst_audio_amplify_set_property (GObject * object, guint prop_id, 
const GValue * value, GParamSpec * pspec);
static void 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;  
    }
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,
                      G_MAXVALUE, G_MINVALUE, 0.0));

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/**
 * 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_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)
        return p->func;
return NULL;
}

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 %" GST_TIME_FORMAT,
        GST_TIME_ARGS (timestamp));

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

    num_samples =
        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;
}

#ifndef __GST_AUDIO_AMPLIFY_H__
#define __GST_AUDIO_AMPLIFY_H__
#endif

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.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_AUDIO_AMPLIFY_GET_CLASS(obj)  (G_TYPE_INSTANCE_GET_CLASS((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))

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

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@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
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</head>

<body>

<!-- Navigation -->

<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
</body>
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1.162 httpcore 4.4.5

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<meta name="viewport" content="width=device-width, initial-scale=1">
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<meta name="msapplication-config" content="/favicons/browserconfig.xml">
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</head>

<body>

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

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1.164 httpcore-nio 4.4.5
1.164.1 Available under license :

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</pre>
1.165 httpmime 4.5.2
1.165.1 Available under license:

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1.166 icu 52.1-3 :3

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```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 $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(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/((")\o[ :]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@

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

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

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

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

# 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
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1.167 icu 52.1-3ubuntu0.4 :3ubuntu0.4

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## -*-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 $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(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/\($*\).o[ :]/\1.o $@ : /g' > $@; \| rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \| sed 's/\($*\).o[ :]/\1.o $@ : /g' > $@; \| 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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1.170 iproute2 2.6.18

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1.181 jackson-core 2.6.5

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1.182 jackson-core-asl 1.1.1

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1.185 jackson-dataformat-cbor 2.8.6

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1.189 jackson-dataformat-yaml 2.6.5

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1.190 jackson-module-jaxb-annotations 2.8.6

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

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1.192 java-ipv6 0.15
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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.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.undo.RedoCommand;
import org.jledit.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());
        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(getTerminal().getHeight() + 1 - getFooterSize(),
1).eraseLine(Ansi.Erase.FORWARD));
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();

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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 BACKSPACE:
            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.BACKSPACE, /* 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.BACKSPACE);
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);

}
}

1.217 jline 2.14.2

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1.219 jna 4.2.2

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The primary ANTLR guy:

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

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/*
File: Core.js

Description:

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

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


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Nicolas Garcia Belmonte

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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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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


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Nicolas Garcia Belmonte

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1.1.2

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1.228 json-c 0.11-3ubuntu1.2 :3ubuntu1.2

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1.229 json-java 20160212

1.230 jsr311-api 1.1.1

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1.2.36 JUnit 4.8.1

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JUnit 4.12

JUnit

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    `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.
Jan Holmberg, <jan@artech.net> :
  o Memory framework
  o HTTP/SSL checkers

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> :
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

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

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

1.241 kerberos 1.12+dfsg-2ubuntu5.2
:2ubuntu5.2
1.241.1 Available under license :

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

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<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
        # DB2 licenses start with '/*-.' and we don't want to change them.
        if line != "" and line != '/*':
            text_seen = True
    return is_license
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/?([^ 
]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'[^*/]*\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()
check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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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
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```
lib/krb5/kdb/kdb_log.c
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lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_acquire_cred.c
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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_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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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<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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    VERSION:     '1.12',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true
};
</script>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
<span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_accept_sec_context</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_acquire_cred</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_context_time</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_delete_sec_context</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_status</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dup_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_exp_sec_context</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_export_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_glue</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_name</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c</span> <span class="o">et</span> <span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c" class="n" et</span>
and the initial implementation of incremental propagation, including
the following new or changed files:

```
#include <iprop_hdr.h>
lib/kadmin/server/ipropd_svc.c
lib/kdb/iprop/x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kprop_log.c
```

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.. parsed-literal::

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

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.d
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et

lib/gssapi/mechglue/g_acquire_cred.c
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lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
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- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
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- 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
and the initial implementation of incremental propagation, including the following new or changed files:

lib/gssapi/spnego/spnego_mech.c
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_expire_name.c
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lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_expire_name.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
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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/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/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_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_inquire_context.c
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/*

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<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
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^ ]\*\)\([^ ]\*\)? */\*\/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Check for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        if not in_comment:
            line = re.sub(r'\*+?\*+? */\*? ', '', line)
            line = line.strip()
        if not in_comment and '/\*-' in line:
            (line, sep, comment_part) = line.partition('/\*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
in_comment = True
elif in_comment and "*/" not in line:
    comment.append(line.lstrip("*/").lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition("*/")
    comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
                           code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != "":
    code_seen = True

In += 1

for fname in sys.argv[1:]:
    if fname.startswith("./"):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
```

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_context_time</span><span class="o">.</span><span class="n">c</span>.

Russia
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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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
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   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
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   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
   lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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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 ##
## 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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## -*-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 $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

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

# 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
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1.260 libicu 48

1.261 libicu 52.1-3ubuntu0.4

1.262 libidn 1.28-1ubuntu2 :1ubuntu2

1.262.1 Available under license :

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coderules.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 "djpeg", 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.

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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.


(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 book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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
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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.

1.265 libjpeg8-empty 8c-2ubuntu8 :2ubuntu8

1.265.1 Available under license:

Name: libjpeg8-empty

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1.266 liblockfile 1.09-6ubuntu1

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1.273 libsmi 0.2.17

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

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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/
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1.275 libtasn1 3.4-3ubuntu0.3 :3ubuntu0.3

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1.277 libusb-compat 0.1.12-23.3ubuntu1

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This package's upstream homepage is http://xmlsoft.org/XSLT/

Upstream Author: Daniel Veillard <Daniel.Veillard@imag.fr>

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1.285 libyaml 0.1.4-3ubuntu3.1 :3ubuntu3.1
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1.286 linux_kernel 3.13.0-76.120 :76.120

1.287 lm_sensors 3.3.4-2ubuntu1 :2ubuntu1

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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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1.367 openssh 6.6p1-2ubuntu2.4

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It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H_
#define COMPAT_POLL_H_

typedef struct pollfd {
    int fd;

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

    #if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
    #ifndef COMPAT_POLL_H_
    #define COMPAT_POLL_H_

    typedef struct pollfd {
        int fd;

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

    #endif
#endif
#endif

------

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*************************************************************************/
shortevents;
shortrevents;
} 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 POLLRD NORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#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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 */

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

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp */

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 *
 *
#define _BSD_WAITPID_H

#ifndef _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) (_W_INT(w) & WCOREFLAG)
#define WEXITSTATUS(w) (_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w) (_W_INT(w) & 0177)
#define WCOREDUMP(w) (_W_INT(w) & WCOREFLAG)

#endif
#endif

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3908
/* Prototype */
pid_t waitpid(int, int *, int);

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

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1.431 org.apache.karaf.shell.ssh 4.0.7

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1.432 org.apache.karaf.shell.table 4.0.7

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

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1.444 org.apache.servicemix.specs.saaj-api-1.3 2.7.0

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1.445 org.apache.servicemix.specs.stax-api-1.2 2.7.0

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1.449 p11-glue 0.20.2-2ubuntu2 :2ubuntu2

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1.452 patch 2.7.1-4ubuntu2.3
1.452.1 Available under license :

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The current maintainer for this package is Laszlo Boszormenyi (GCS)
Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>, Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>, Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.


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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

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

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

----------------------------------------------------------
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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,""
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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The End

1.467 perl 5.18.2-2ubuntu1.1
1.467.1 Available under license :

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"
);

}

# 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

Files: *
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by Larry Wall and others

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It is by Paul Hsieh (c) 2004 and is analysed here [http://www.azillionmonkeys.com/qed/hash.html](http://www.azillionmonkeys.com/qed/hash.html)
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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#!/usr/bin/perl -w
use strict;
use Test::More tests => 8;

my $upstream_version;
ok(open(P, "dpkg-parsechangelog |"), "successfully piping from dpkg-parsechangelog");
while (<P>) {
    /^Version: (.+)-[^-]+$/ or next;
    $upstream_version = $1;
    last;
}
isnt($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");

SKIP: {
    system('which cme >/dev/null 2>&1');
    my $cmd;
    if ($?) {
        system('which config-edit >/dev/null 2>&1');
        skip('no cme or config-edit or available', 2) if $?;
        $cmd = 'config-edit -application dpkg-copyright -ui none';
    } else {
        $cmd = 'cme check dpkg-copyright';
    }
    diag("checking debian/copyright which copyright checker '$cmd'");
    unlike( 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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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

-----------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

1.468 plexus-cipher 1.7

1.469 plexus-component-annotations 1.5.5
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This package was previously maintained by Ian Murdock <imurdock@debian.org>, Alvar Bray <alvar@debian.org>, Christoph Lameter <clameter@debian.org>, Philip Hands <phil@hands.com>, Michael Beattie <mjb@debian.org> and Russell Coker <russell@coker.com.au>.

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

Original sources were obtained 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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--------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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--------

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Original location:
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-------------

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-------

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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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| Version | Python Version | Year | License | Open Source?
|---------|----------------|------|---------|-------------
| 2.1     | 2.0+1.6.1      | 2001 | PSF     | no          
| 2.0.1   | 2.0+1.6.1      | 2001 | PSF     | yes         
| 2.1.1   | 2.1+2.0.1      | 2001 | PSF     | yes         
| 2.1.2   | 2.1.1          | 2002 | PSF     | yes         
| 2.1.3   | 2.1.2          | 2002 | PSF     | yes         
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes         

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1.481 python-pam 0.4.2-13.1ubuntu3

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

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

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

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

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=======================================================
Mersenne Twister
-------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matsumoto/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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  version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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------

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Jean-loup Gailly        Mark Adler
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/* Beep added by Mark Hammond */
/* Win9X Beep and platform identification added by Uncle Timmy */

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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
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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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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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1.493 registry 4.0.7

1.494 reindex 5.2.2

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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

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1.504 securesm 1.1

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/*
 * avcstat - Display SELinux avc statistics.
 *
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 *
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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
", 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", 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 ave_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);
progsname = 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;

    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 (!i || !(i % (rows - 2)))
printf("%10s %10s %10s %10s %10s %10s\n", "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;

1.507 servlet-api 2.5
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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
 */
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.
     *
     * This approach will work well if the desired ILoggerFactory is the one
     * references by LoggerFactory. However, if the user manages its logger hierarchy
     * through a different (non-static) mechanism, e.g. dependency injection, then
     * this approach would be mostly counterproductive.
     *
     * @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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1.546 spring-boot-starter 1.5.0

1.547 spring-boot-starter-log4j2 1.5.0

1.548 spring-boot-starter-log4j2 1.3.3

1.549 spring-boot-starter-logging 1.4.1

1.550 spring-boot-starter-logging 1.3.3
1.551 spring-boot-starter-test 1.3.3

1.552 spring-boot-starter-validation 1.3.3

1.553 spring-context 4.3.6

1.554 spring-context 4.2.5

1.555 spring-context 4.3.3.RELEASE

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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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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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***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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5312
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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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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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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*
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*
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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1.598 util-linux 2.20.1-5.1ubuntu20.7

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1.601 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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SUMMARY
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Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn’t actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

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

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy 10238-168 Street Surrey, B.C. V4N 1Z4 Canada Phone: 604-581-5353 If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774 IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.
Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:ft=help:norl:
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                      (XPM - X PixMap format version 2 & 3)
                      Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
              2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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
is Debian VIM Maintainers <pkg-vim-maintainers@lists.alioth.debian.org>.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

c) Accompany the work with a written offer, valid for at least
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as
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.Nm STAILQ_LAST,
.Nm STAILQ_NEXT,
.Nm STAILQ_REMOVE_AFTER,
.Nm STAILQ_REMOVE_HEAD,
.Nm STAILQ_REMOVE,
.Nm STAILQ_SWAP,
.Nm LIST_EMPTY,
.Nm LIST_ENTRY,
.Nm LIST_FIRST,
.Nm LIST_FOREACH,
.Nm LIST_FOREACH_SAFE,
.Nm LIST_HEAD,
.Nm LIST_HEAD_INITIALIZER,
.Nm LIST_INIT,
.Nm LIST_INSERT_AFTER,
.Nm LIST_INSERT_BEFORE,
.Nm LIST_INSERT_HEAD,
.Nm LIST_NEXT,
.Nm LIST_REMOVE,
.Nm LIST_SWAP,
.Nm TAILQ_CONCAT,
.Nm TAILQ_EMPTY,
.Nm TAILQ_ENTRY,
.Nm TAILQ_FIRST,
.Nm TAILQ_FOREACH,
.Nm TAILQ_FOREACH_SAFE,
.Nm TAILQ_FOREACH_REVERSE,
.Nm TAILQ_FOREACH_REVERSE_SAFE,
.Nm TAILQ_HEAD,
.Nm TAILQ_HEAD_INITIALIZER,
.Nm TAILQ_INIT,
.Nm TAILQ_INSERT_AFTER,
.Nm TAILQ_INSERT_BEFORE,
.Nm TAILQ_INSERT_HEAD,
.Nm TAILQ_INSERT_TAIL,
.Nm TAILQ_LAST,
.Nm TAILQ_NEXT,
.Nm TAILQ_PREV,
.Nm TAILQ_REMOVE,
.Nm TAILQ_SWAP
.Nd implementations of singly-linked lists, singly-linked tail queues,
lists and tail queues
.Sh SYNOPSIS
.In sys/queue.h
"\n.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_INIT "SLIST_ENTRY NAME"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_TAIL "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_HEAD "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "TYPE *elm" "TYPE" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
"
.Fn STAILQ_CONCAT "STAILQ_HEAD *head1" "STAILQ_HEAD *head2"
.Fn STAILQ_EMPTY "STAILQ_HEAD *head"
.Fn STAILQ_ENTRY "TYPE"
.Fn STAILQ_FIRST "STAILQ_HEAD *head"
.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_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_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_INSERT_TAIL "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"
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:
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,

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

or

named

The argument

is the name of a user defined structure that must be declared using the macros

or

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

A singly-linked list is headed by a structure defined by the 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
.Sa SLIST_HEAD
structure is declared as follows:
.Bd -literal -offset indent
SLIST_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where
.Sa HEADNAME
is the name of the structure to be defined, and
.Sa 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:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
.Pp
(The names
.Li head
and
.Li headp
are user selectable.)
.Pp
The macro
.Nm SLIST_HEAD_INITIALIZER
evaluates to an initializer for the list
.Sa head .
.Pp
The macro
.Nm SLIST_EMPTY
evaluates to true if there are no elements in the list.
.Pp
The macro
.Nm SLIST_ENTRY
declares a structure that connects the elements in the list.
.Pp
The macro
.Nm SLIST_FIRST
returns the first element in the list or NULL if the list is empty.
.Pp
The macro
.Nm SLIST_FOREACH
traverses the list referenced by
.in .Fa head
in the forward direction, assigning each element in
turn to
.in .Fa var .
.Pp
The macro
.in .Nm SLIST_FOREACH_SAFE
traverses the list referenced by
.in .Fa head
in the forward direction, assigning each element in
turn to
.in .Fa var .
However, unlike
.in .Fn SLIST_FOREACH
here it is permitted to both remove
.in .Fa var
as well as free it from within the loop safely without interfering with the
traversal.
.Pp
The macro
.in .Nm SLIST_INIT
initializes the list referenced by
.in .Fa head .
.Pp
The macro
.in .Nm SLIST_INSERT_HEAD
inserts the new element
.in .Fa elm
at the head of the list.
.Pp
The macro
.in .Nm SLIST_INSERT_AFTER
inserts the new element
.in .Fa elm
after the element
.in .Fa listelm .
.Pp
The macro
.in .Nm SLIST_NEXT
returns the next element in the list.
.Pp
The macro
.in .Nm SLIST_REMOVE_AFTER
removes the element after
.in .Fa elm
from the list. Unlike
.in .Fa SLIST_REMOVE ,
this macro does not traverse the entire list.

The macro

removes the element

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

macro.

The macro

removes the element

from the list.

The macro

swaps the contents of

and

.

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. */
    ...
};

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);
}
.Ed
.Sh SINGLY-LINKED TAIL QUEUES
A singly-linked tail queue is headed by a structure defined by the
.Nm 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
.Future STAILQ_HEAD
structure is declared as follows:
.Future -literal -offset indent
STAILQ_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:
.Future -literal -offset indent
struct HEADNAME *headp;
.Ed
.Pp
(The names .Li head and .Li headp are user selectable.)

.Pp
The macro .Nm STAILQ_HEAD_INITIALIZER evaluates to an initializer for the tail queue .Fa head .

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

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

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

.Pp
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 .

.Pp
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.
.Pp
The macro
.Nm STAILQ_INIT
initializes the tail queue referenced by
.Fa head.
.Pp
The macro
.Nm STAILQ_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the tail queue.
.Pp
The macro
.Nm STAILQ_INSERT_TAIL
inserts the new element
.Fa elm
at the end of the tail queue.
.Pp
The macro
.Nm STAILQ_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm.
.Pp
The macro
.Nm STAILQ_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 STAILQ_NEXT
returns the next item on the tail queue, or NULL this item is the last.
.Pp
The macro
.Nm STAILQ_REMOVE_AFTER
removes the element after
.Fa elm
from the tail queue. Unlike
.Fa 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 \texttt{STAILQ\_REMOVE} macro.

The macro \texttt{STAILQ\_REMOVE} removes the element \texttt{elm} from the tail queue.

The macro \texttt{STAILQ\_SWAP} swaps the contents of \texttt{head1} and \texttt{head2}.

**SINGLY-LINKED TAIL QUEUE EXAMPLE**

```c
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);
.Ed
.Sh LISTS
A list is headed by a structure defined by the
.Nm 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
.Floor LIST_HEAD
structure is declared as follows:
.Floor -literal -offset indent
LIST_HEAD(HEADNAME, TYPE) head;
.Ed
.Floor 
where
.Floor HEADNAME
is the name of the structure to be defined, and
.Floor 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:

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

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

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

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

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

initializes the list referenced by

The macro

inserts the new element

at the head of the list.

The macro

inserts the new element

after the element

The macro

inserts the new element

before the element

The macro

returns the next element in the list, or NULL if this is the last.

The macro

removes the element

from the list.

The macro

swaps the contents of

and

LIST EXAMPLE

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
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:

```
.Td -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
```

where

- `HEADNAME` is the name of the structure to be defined, and
- `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:

```
.Td -literal -offset indent
struct HEADNAME *headp;
.Ed
```

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

The macro .Nm TAILQ_HEAD_INITIALIZER evaluates to an initializer for the tail queue .Fa head.

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.

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

The macro

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

The macro

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

The macro

TAILQ_FOREACH
traverses the tail queue referenced by
head
in the forward direction, assigning each element in turn to
var.

var
is set to
NULL
if the loop completes normally, or if there were no elements.

The macro

TAILQ_FOREACH_REVERSE
traverses the tail queue referenced by
head
in the reverse direction, assigning each element in turn to
var.

The macros

TAILQ_FOREACH_SAFE
and
TAILQ_FOREACH_REVERSE_SAFE
traverse the list referenced by
head
in the forward or reverse direction respectively,
assigning each element in turn to
var.

However, unlike their unsafe counterparts,
TAILQ_FOREACH
and
TAILQ_FOREACH_REVERSE
permit to both remove
var
as well as free it from within the loop safely without interfering with the
traversal.
The macro
.Nm TAILQ_INIT
initializes the tail queue referenced by
.Fa head .
.Pp
The macro
.Nm TAILQ_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the tail queue.
.Pp
The macro
.Nm TAILQ_INSERT_TAIL
inserts the new element
.Fa elm
at the end of the tail queue.
.Pp
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

from the tail queue.

The macro

swaps the contents of

and

. Pf

The macro

swaps the contents of

and

. Pf

. Sh TAIL QUEUE EXAMPLE

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
#
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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
    *
    * Generated automatically by bsd-sys-queue-h-seddery to
    * - introduce $ucnamespace_ and $namespace_ 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
 )/${ucnamespace}_$1/xg;
s/\b( TRACEBUF | TRASHIT |
    QMD_
 )/${ucnamespace}__$1/xg;
s/\b(qm_
    )/${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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1.617 xmlrpc-client 3.1.3

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1.621 zlib 1.2.8.dfsg-1ubuntu1 :1ubuntu1

1.622 zlib 1.2.3
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/* 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://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

/*

1.623 zlib 1.2.7

1.623.1 Available under license:

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include/winstdint.h is included only for Windows Client support, as follows:

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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