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    Willem van Schaik

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1.2 jetty-continuation 9.2.13.v20150730

1.3 jackson-annotations 2.6.0

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1.4 t-digest 3.2

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/FloatHistogram.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/AVLGroupTree.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/Sort.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/TDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/IntAVLTree.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/Histogram.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/MergingDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/Centroid.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/Simple64.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
  jar/com/tdunning/math/stats/AVLTreeDigest.java

1.5 pango 1.42.4 4.el7_7

1.5.1 Available under license:

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1.12 metrics-health-checks 3.1.2

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* /opt/ws_local/PERMITS_SQL/1071984926_1594967478.4/0/spring-context-support-5-0-5-release-sources-1.jar/org/springframework/scheduling/quartz/SchedulerContextAware.java

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801

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- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See [http://members.unine.ch/jacques.savoy/clef/index.html](http://members.unine.ch/jacques.savoy/clef/index.html).

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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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    analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.34 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.35 jackson-databind 2.11.0
1.35.1 Available under license :

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1.36 jersey-client 2.22.1

1.37 libjpeg-turbo 1.2.90 8.el7

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=======================
This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
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*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
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.
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The same holds for its supporting scripts (config.guess, config.sub,
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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
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REFERENCES
==========

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

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

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


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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

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

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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/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1
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.

1.38 javax-annotation-api 1.3.2

1.39 lm-sensors 3.4.0

8.20160601gitf9185e5.el7

1.39.1 Available under license:

Here is a list of the main contributors to lm-sensors version 3.

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

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*/

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

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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WEXITED
#endif
#endif

#define _BSD_WAITPID_H
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w) & 0100))
#define WIFSIGNALED(w) (WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

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

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

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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 */

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

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

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLNVAL 0x0020
#if 0 /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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[Tatu continues]
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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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[The licence continues]

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* @version 3.0 (December 2000)

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* /opt/cola/permits/1098211951_1602271265.35/0/hdrhistogram-2-1-9-sources-1-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1098211951_1602271265.35/0/hdrhistogram-2-1-9-sources-1-jar/org/HdrHistogram/LogarithmicIterator.java
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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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more than your reasonable cost of physically performing this
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
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d) Convey the object code by offering access from a designated
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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1.50 perl-text-parsewords 3.29-4.el7

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--
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1.51 xorg-x11-fonts 7.5 9.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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1.55 spring-aop 5.0.5.RELEASE

1.56 yum 3.4.3 163.el7.centos

1.56.1 Available under license :

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo
     """self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
+    def get_notices(self, name=None):
+        """Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             name = oldpkgtup[0]
             arch = oldpkgtup[1]
             ret = []
+        other_arch_list = []
+        notices = set()
+        for notice in self.get_notices(name):
+            for upkg in notice['pkglist']:
for pkg in upkg['packages']:
    + other_arch = False
    if pkg['name'] != name or pkg['arch'] != arch:
-        continue
+        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+            other_arch = True
+        else:
+            continue
    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
          pkg['version'], pkg['release'])
    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
        continue
-    ret.append((pkgtup, notice))
+    if other_arch:
+        other_arch_list.append((pkgtup, notice))
+    else:
+        notices.add(notice)
+    for pkgtup, notice in other_arch_list:
+        if notice not in notices:
+            ret.append((pkgtup, notice))
    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).
    
-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : '',
            'type' : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):

-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : '',
            'type' : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):

-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : '',
            'type' : '',
if elem:
    self._parse(elem)

+    self._repoid = repoid
+    self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). """
+        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
            if hasattr(un, '_repoid') and un._repoid is not None:
                return un._repoid
            else:
+                return '<unknown>'
+
+        def _rid(un):
+            if hasattr(un, '_repoid') and un._repoid is not None:
+                return un._repoid
+            else:
+                return '<unknown>'
+
+        def _log_failure(data):
+            """Log the mismatched data similarly to conflict markers in git."""
+            if self._vlogger is None:
+                return
+            msg = _('Duplicate of %s differs in some fields:
')
+            msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+            msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+            msg += '>>>>>>> %s:%s' % (_rid(self), data)
+            # --verbose mode enables this
+            self._vlogger.log(logging.DEBUG_3, msg)
+
+        if not other or not hasattr(other, '_md'):
+            return False
@@ -113,6 +134,7 @@ class UpdateNotice(object):
            if data == 'status': # FIXME: See below...
                continue
            if self._md[data] != other._md[data]:
+                _log_failure(data)
                return False

@@ -120,8 +142,10 @@ class UpdateNotice(object):
            if self._md[data] != other._md[data]:
+                _log_failure(data)
                return False

            # FIXME: Massive hack, Fedora is really broken and gives status=stable
            # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
            if self._md[data] != other._md[data]:
+                _log_failure(data)
                return False

            # FIXME: Massive hack, Fedora is really broken and gives status=stable
            # and status=testing for updateinfo notices, just depending on which

if other._md[data] not in ('stable', 'testing'):
+    _log_failure(data)
    return False

    # They are both really "stable" ...
    self._md[data] = 'stable'

@@ -574,7 +598,7 @@ class UpdateMetadata(object):
        try:
            -                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
            except UpdateNoticeException, e:
                msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                    _rid(repoid))
            if not have_dup:
                msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s")
                if self._vlogger:
                    msg += "If you are the owner, consider re-running the same command with --verbose to see the "+
                    'exact data that caused the conflict.'
                    have_dup = True
                    if self._vlogger:
                        self._vlogger.warn("%s", msg)

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* /opt/cola/permits/1095812146_1601503568.81/0/netty-handler-4-1-13-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1095812146_1601503568.81/0/netty-handler-4-1-13-final-sources-1-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1095812146_1601503568.81/0/netty-handler-4-1-13-final-sources-1-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1095812146_1601503568.81/0/netty-handler-4-1-13-final-sources-1-
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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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# MT19937

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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

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1.78 perl-getopt-long 2.40 3.el7

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The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
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The complete snprintf package together with documentation is available
from

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

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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

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

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at


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. The 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

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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


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1.101 zlib 1.2.7 18.el7

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

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

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

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

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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  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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

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This option is useful when you wish to copy part of the code of
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1.104 jackson 2.11.0

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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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1.105 lucene-spatial-extras 7.7.2

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src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infuntil.c
src/gzip/infuntil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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The End

1.113 spring-context 5.0.8.RELEASE

1.114 bc 1.06.95 13.el7

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* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.70/javassist-3-18-1-ga-sources-jar/javassist/util/proxy/ProxyObject.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.70/javassist-3-18-1-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.70/javassist-3-18-1-ga-sources-jar/javassist/util/proxy/ProxyObject.java
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1.117 glibc 2.17
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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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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1-jar/org/hibernate/validator/constraints/br/CNPJ.java
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* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1.jar/org/hibernate/validator/internal/metadata/raw/ConstrainedParameter.java
* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1.jar/org/hibernate/validator/internal/util/privilegedactions/GetResolvedMemberMethods.java
* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForOffsetDateTime.java
* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1.jar/org/hibernate/validator/cfg/defs/RangeDef.java
* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1.jar/org/hibernate/validator/internal/engine/path/PathImpl.java
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 */

/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 * 
 * @param executable The executable of interest.
 * 
 * @return A list with parameter meta data for the given executable.
 */

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* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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The following listing shows an example using the JavaScript engine which comes with the JDK:

```java
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@<p>

@author Gunnar Morling

/*

Found in path(s):
*/

* /opt/ws_local/PERMITS_SQL/1070927333_1594793038.19/0/hibernate-validator-5-2-2-final-sources-1-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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1.125 reflectasm 1.09

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1.126 jackson-dataformat-cbor 2.9.6

1.127 libsemanage 2.5-14.el7.0atomix1
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1.128 plexus-classworlds 1.1-alpha-2

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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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 compile or link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

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1.139 perl 5.16.3-293.el7

1.139.1 Available under license:

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

plan 'no_plan';

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

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

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

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

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

    my $meta = $mb->get_metadata( fatal => 0 );

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

}

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

    };
```
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
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

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Version 1, February 1989

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

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

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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1.140 dropwizard-logging 0.9.2

1.141 perl-file-temp 0.23.01 3.el7

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1.142 dns 3.1.5

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* /opt/cola/permits/1100652009_1602817351.26/0/spring-core-5-0-8-release-sources-2-
  jar/org/springframework/core/AliasRegistry.java
* /opt/cola/permits/1100652009_1602817351.26/0/spring-core-5-0-8-release-sources-2-
  jar/org/springframework/core/serializer/support/DeserializingConverter.java
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  jar/org/springframework/core/serializer/support/SerializingConverter.java
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  jar/org/springframework/core/util/UpdateMessageDigestInputStream.java
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  jar/org/springframework/core/annotation/AnnotationConfigurationException.java
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- You keep the changes for at least three years after last
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available to him.
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3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
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4) The contact information as required under 2)a) and 2)d) must not be
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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 [sponsor]. The money goes to Uganda anyway.

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

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.
The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.
Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland. Postbank, nr. 4548774 IBAN: NL95 INGB 0004 5487 74

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

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

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland
This address is expected to be valid for a long time.

1.150 libxi 1.1.3 2.1.el7

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1.151 spring-aop 5.0.8.RELEASE

1.152 perl-pod-perldoc 3.20 4.el7

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1.153 lucene-spatial3d 7.7.2

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  .analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
  .analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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===========================================================================
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===========================================================================

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mecab-ipadic-2.7.0-20070801
which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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1.155 hk2-locator 2.4.0-b31
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- com.twitter:hbc-core:2.2.0
- com.twitter:joauth:6.0.2
- org.apache.httpcomponents:httpclient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6

ASM: a very small and fast Java bytecode manipulation framework

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- io.netty:netty-resolver:4.1.6.Final
- io.netty:netty-transport:4.1.6.Final
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- net.java.dev.jna:jna:4.2.2
- org.apache.httpcomponents:httpasyncclient:4.1.2
- org.apache.httpcomponents:httpclient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6
- org.apache.httpcomponents:httpcore-nio:4.4.5
- org.apache.logging.log4j:log4j-api:2.7
- org.apache.logging.log4j:log4j-to-slf4j:2.7
- org.apache.lucene:lucene-analyzers-common:6.3.0
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- com.aliyun:aliyun-java-sdk-ecs:4.2.0
- com.aliyun:aliyun-java-sdk-ram:3.0.0
- com.aliyun:aliyun-java-sdk-sts:3.0.0
- com.fasterxml.jackson.core:jackson-annotations:2.7.0
- com.fasterxml.jackson.core:jackson-core:2.7.8
- com.fasterxml.jackson.core:jackson-databind:2.7.8
- com.fasterxml.jackson.module.jackson-databind-core:5.0.3
- com.google.code.gson:gson:2.2.4
- com.google.guava:guava:11.0.2
- com.nimbusds:nimbus-jose-jwt:4.41.1
- commons-beanutils:commons-beanutils:1.9.3
- commons-cli:commons-cli:1.3.1
- commons-codec:commons-codec:1.10
- commons-collections:commons-collections:3.2.2
- commons-io:commons-io:2.4
- commons-lang:commons-lang:3.3.2
- commons-logging:commons-logging:1.1.3
- commons-net:commons-net:3.6
- net.minidev:accessors-smart:1.2
- net.minidev:json-smart:2.3
- org.apache.avro:avro:1.8.2
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- org.ow2.asm:asm:5.0.4

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- javax.xml.stream:stax-api:1.0-2
- stax:stax-api:1.0.1

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- com.sun.jersey:jersey-json:1.9
- com.sun.jersey:jersey-server:1.19
- com.sun.jersey:jersey-servlet:1.19
- com.sun.xml.bind:jaxb-impl:2.2.3-1
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- org.jdom:jdom:1.1

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- com.fasterxml.jackson.core:jackson-core:2.7.8
- com.fasterxml.jackson.core:jackson-databind:2.7.8
- com.google.guava:guava:11.0.2
- com.microsoft.azure:azure-keyvault-core:0.8.0
- com.microsoft.azure:azure-storage:5.4.0
- commons-codec:commons-codec:1.10
- commons-logging:commons-logging:1.1.3
- org.apache.hadoop:hadoop-azure:3.1.0
- org.apache.httpcomponents:httpclient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6
- org.eclipse.jetty:jetty-util:9.3.24.v20180605
- org.eclipse.jetty:jetty-util-ajax:9.3.24.v20180605

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(rollup 0.25.8)

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(path-parse 1.0.6)

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(define-properties v1.1.3)

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(lazy-cache 1.0.4)

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(is-buffer 1.1.6)

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(wolfy87-eventemitter 5.1.0)

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 *
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For hadoop-common-project/hadoop-common/src/main/native/gtest

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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- hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
- hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
bootstrap v3.3.6
broccoli-asset-rev v2.4.2
broccoli-funnel v1.0.1
datatables v1.10.8
datatables v1.10.8
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ember-array-contains-helper v1.0.2
ember-bootstrap v0.5.1
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jquery-ui v1.11.4
loader.js v3.3.0
momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
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- com.fasterxml.jackson.dataformat:jackson-dataformat-smile:2.6.6
- com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.6.6
- com.google.guava:guava:18.0
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- com.spatial4j:spatial4j:0.5
- com.tdunning:t-digest:3.0
- commons-cli:commons-cli:1.3.1
- io.netty:netty:3.10.5.Final
- joda-time:joda-time:2.5
- org.apache.lucene:lucene-analyzers-common:5.5.0
- org.apache.lucene:lucene-backward-codecs:5.5.0
- org.apache.lucene:lucene-core:5.5.0
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- org.apache.lucene:.lucene-spatial3d:5.5.0
- org.apache.lucene:.lucene-suggest:5.5.0
- org.elasticsearch:elasticsearch:2.3.5
- org.elasticsearch:securesm:1.0
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- org.yaml:snakeyaml:1.15

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- commons-configuration:commons-configuration:1.7
- commons-digester:commons-digester:1.8.1
- commons-io:commons-io:2.4
- commons-lang:commons-lang:2.6
- commons-logging:commons-logging:1.1.3
- commons-net:commons-net:3.1
- commons-httpclient:commons-httpclient:3.1
- com.google.guava:guava:11.0.2
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- com.nimbusds:nimbus-jose-jwt:3.9
- org.mortbay.jetty:jetty-sslengine:6.1.26
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- xmlenc:xmlenc:0.52
- com.google.protobuf:protobuf-java:2.5.0

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You can contact the author at :
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.169 simpleclient-hotspot 0.6.0

1.170 jetty-webapp 9.2.13.v20150730

1.171 jetty 9.2.13.v20150730

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E-Mail: jmconnell@apache.org
Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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iD8DBQFHacMO+jig6q+UlyBMRakAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjJACgrvJM/C/W/GuQfCJykklL2jd9/Ag=
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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgaq9Frj/ClrIRAamuJAKCFgi4W0UOH8IUn+sV6PBHRF3BnLgCcDqqCZokttk0bTHfwaa5TtxQbScw=
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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFEt1ZxHR/ESK2w6H8RApboAJ9c1eooNf2oN59WZVitJExGJjUvKgCfaKji6etDJ6uJwljwTusWMQ=
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Version: GnuPG v1.4.3 (GNU/Linux)

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     =6rqm
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Mailing Address: 4676 Admiralty Way, Suite 520
    Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail:    gordon.king@simulalabs.com
Fax:       +1 800 822 0471

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Signature:

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Positions: Chief Operational Officer

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<table>
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<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet;javax.servlet-api
javax.servlet.jsp;javax.servlet.jsp-api
org.glassfish.web;javax.servlet.jsp
org.glassfish.web;javax.servlet.jsp.jstl
org.eclipse.jetty.orbit.jsr305

-----

Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.172 spring-jcl 5.0.5.RELEASE

1.173 json-java 20090211
1.173.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
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* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/util/EncodingUtils.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/password/Digester.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1.jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
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/**
** Base64 encoder which is a reduced version of Robert Harder's public domain
* implementation (version 2.3.7). See <a
* href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
* <p>
* For internal use only.
*
* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

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  jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1-
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 */

/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the <code>Object</code> or throw an [link AccessDeniedException].
* 
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean. Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
* 
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* 
* @author Ben Alex
*/

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*/
/**
* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/

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 */

/**
 * Determines if the {@link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 */
* @return true if permission is granted to the [@link #getAuthentication()], else
* false
*/

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* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java
* /opt/ws_local/PERMITS_SQL/1071963213_1594967861.23/0/spring-security-core-5-0-4-release-sources-1-jar/org/springframework/security/access/PermissionCacheOptimizer.java
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1.176 bean-validation-api 1.1.0.Final

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1.178 jackson 2.8.11

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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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1.179 dropwizard-util 0.9.2

1.180 cups 1.6.3 40.el7
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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Ty Coon, President of Vice
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That's all there is to it!

That's all there is to it!

That's all there is to it!

That's all there is to it!

That's all there is to it!

That's all there is to it!

That's all there is to it!
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</PRE>

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PRE
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Version 2, June 1991

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</OL>

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<OL TYPE="a">

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</PRE>

1.181 log4j-slf4j18-impl 2.11.1
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* /opt/ws_local/PERMITS_SQL/1071974624_1594967407.49/0/spring-tx-5-0-5-release-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java
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* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-
jar/org/springframework/kafka/support/converter/ProjectingMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-
jar/org/springframework/kafka/requestreply/CorrelationKey.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/core/CompositeKafkaStreamsCustomizer.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/transaction/KafkaAwareTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/requestreply/RequestReplyFuture.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/transaction/ChainedKafkaTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/event/ConsumerResumedEvent.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/core/CleanupConfig.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/support/AbstractKafkaHeaderMapper.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/core/KafkaStreamsCustomizer.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/listener/AfterRollbackProcessor.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/support/LogIfLevelEnabled.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/support/SimpleKafkaHeaderMapper.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/support/CompositeProducerListener.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/requestreply/ReplyingKafkaTemplate.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1.jar/org/springframework/kafka/support/converter/BytesJsonMessageConverter.java

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*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/ProducerListener.java
*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/ProducerListenerAdapter.java
*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/event/KafkaEvent.java
*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/Acknowledgment.java
*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/LoggingProducerListener.java
*/opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/LoggingErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/107272785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/core/ProducerFactoryUtils.java

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* /opt/ws_local/PERMITS_SQL/107272785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/GenericMessageListener.java
* /opt/ws_local/PERMITS_SQL/107272785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/annotation/KafkaListener.java
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* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/ListenerExecutionFailedException.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/config/KafkaListenerConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/core/KafkaProducerException.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/converter/ConversionException.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/converter/KafkaMessageHeaders.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/SendResult.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/annotation/PartitionOffset.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/KafkaNull.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/annotation/EnableKafka.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/core/ProducerFactory.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/core/ConsumerFactory.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/converter/MessageConverter.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/converter/KafkaMessageHeaders.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/KafkaException.java
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* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/ConsumerAwareBatchErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/ConsumerAwareErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/ContainerAwareBatchErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/RemainingRecordsErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/KafkaListenerErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/ContainerAwareErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/serializer/JsonSerde.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/DefaultKafkaHeaderMapper.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/support/serializer/MessagingMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/config/ContainerProperties.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/config/MultiMethodKafkaListenerEndpoint.java
* /opt/ws_local/PERMITS_SQL/1072722785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/listener/config/MessagingMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/107272785_1595100914.09/0/spring-kafka-2-1-9-release-sources-1-jar/org/springframework/kafka/config/KafkaListenerContainerFactory.java

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2c9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot Start   End   Blocks   Id  System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start   End   Blocks   Id  System
__ts_dev__1  2048   4095    1024   83  Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd bsd.img

---layout---------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start   End   Blocks   Id  System
__ts_dev__1  2048   4095    1024   83  Linux
__ts_dev__2  4096   20479   8192   a5  FreeBSD
-------------------
Create default BSD
2e1cee529cb59e9341afef0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

```
b5c121c2091b2ff26b880551feac7112 bsd.img
```

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

```
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V
```

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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

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

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SLF4J library (slf4j-api-*.jar)

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.199 jna 4.5.1

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 */
package com.sun.jna;

/** Tagging interface to indicate the library or callback uses an alternate
 * calling convention.
 * @author twall
 */
public interface AltCallingConvention {}
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1.201 geo-ip 1.5.0 14.el7

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1.208 kmod 20-25.el7_7.1

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1.210 avatica-core 1.15.0

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1.211 perl 1.04 294.el7_6

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ''; my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \d{4,}/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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

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<one line to give the program's name and a brief idea of what it does.>  
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The hypothetical commands `show w' and `show c' should show the  
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at assemblers) written by James Hacker.  

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

That's all there is to it!
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The End

1.212 libssh 0.7.1-7.el7
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1.213 compiler 0.9.3

1.214 alsa-lib 1.1.8 1.el7

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 */

#include <assert.h>
#include <limits.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <math.h>
#include <err.h>

#define alisp_seq_iterator alisp_object

#include "local.h"
#include "alisp.h"
#include "alisp_local.h"

struct alisp_object alsa_lisp_nil;
struct alisp_object alsa_lisp_t;

/* parser prototypes */
static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken);
static void princ_cons(snd_output_t *out, struct alisp_object * p);
static void princ_object(snd_output_t *out, struct alisp_object * p);
static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p);

/* functions */
static struct alisp_object *F_eval(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_progn(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_funcall(struct alisp_instance *instance, struct alisp_object *);

/* others */
static int alisp_include_file(struct alisp_instance *instance, const char *filename);

/
* object handling
*/

static int get_string_hash(const char *s)
{
    int val = 0;
    if (s == NULL)
        return val;
    while (*s)
        val += *s++;
    return val & ALISP_OBJ_PAIR_HASH_MASK;
}

static void nomem(void)
{
    SNDERR("alisp: no enough memory");
}

static void lisp_verbose(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
if (!instance->verbose)
    return;
va_start(ap, fmt);
snd_output_printf(instance->vout, "alisp: ");
snd_output_vprintf(instance->vout, fmt, ap);
snd_output_putchar(instance->vout, '\n');
va_end(ap);
}

static void lisp_error(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->eout, "alisp error: ");
    snd_output_vprintf(instance->eout, fmt, ap);
    snd_output_putchar(instance->eout, '\n');
    va_end(ap);
}

static void lisp_warn(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->wout, "alisp warning: ");
    snd_output_vprintf(instance->wout, fmt, ap);
    snd_output_putchar(instance->wout, '\n');
    va_end(ap);
}

static void lisp_debug(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->debug)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->dout, "alisp debug: ");
    snd_output_vprintf(instance->dout, fmt, ap);
    snd_output_putchar(instance->dout, '\n');
    va_end(ap);
}
static struct alisp_object * new_object(struct alisp_instance *instance, int type)
{
    struct alisp_object * p;

    if (list_empty(&instance->free_objs_list)) {
        p = (struct alisp_object *)malloc(sizeof(struct alisp_object));
        if (p == NULL) {
            nomem();
            return NULL;
        }
        lisp_debug(instance, "allocating cons %p", p);
    } else {
        p = (struct alisp_object *)instance->free_objs_list.next;
        list_del(&p->list);
        instance->free_objs--;
        lisp_debug(instance, "recycling cons %p", p);
    }

    instance->used_objs++;

    alisp_set_type(p, type);
    alisp_set_refs(p, 1);
    if (type == ALISP_OBJ_CONS) {
        p->value.c.car = &alsa_lisp_nil;
        p->value.c.cdr = &alsa_lisp_nil;
        list_add(&p->list, &instance->used_objs_list[ALISP_OBJ_CONS]);
    }

    if (instance->used_objs + instance->free_objs > instance->max_objs)
        instance->max_objs = instance->used_objs + instance->free_objs;

    return p;
}

static void free_object(struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
        free(p->value.s);
        alisp_set_type(p, ALISP_OBJ_INTEGER);
        break;
    default:
        break;
    }
}
static void delete_object(struct alisp_instance *instance, struct alisp_object * p) {
    if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t) return;
    if (alisp_compare_type(p, ALISP_OBJ_NIL) || alisp_compare_type(p, ALISP_OBJ_T)) return;
    assert(alisp_get_refs(p) > 0);
    lisp_debug(instance, "delete cons %p (type = %i, refs = %i) (s = '%s')", p, alisp_get_type(p), alisp_get_refs(p),
                alisp_compare_type(p, ALISP_OBJ_STRING) || alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) ? p->value.s : "???");
    if (alisp_dec_refs(p)) return;
    list_del(&p->list);
    instance->used_objs--;
    free_object(p);
    if (instance->free_objs >= ALISP_FREE_OBJ_POOL) {
        lisp_debug(instance, "freed cons %p", p);
        free(p);
        return;
    }
    lisp_debug(instance, "moved cons %p to free list", p);
    list_add(&p->list, &instance->free_objs_list);
    instance->free_objs++;
}

static void delete_tree(struct alisp_instance *instance, struct alisp_object * p) {
    if (p == NULL) return;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        delete_tree(instance, p->value.c.car);
        delete_tree(instance, p->value.c.cdr);
    }
    delete_object(instance, p);
}

static struct alisp_object * incref_object(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * p) {
    if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t) return p;
    if (alisp_get.refs(p) == ALISP_MAX_REFS) {
        assert(0);
        fprintf(stderr, "OOPS: alsa lisp: incref fatal error\n");
        exit(EXIT_FAILURE);
    }
    alisp_inc_refs(p);
static struct alisp_object * incref_tree(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        incref_tree(instance, p->value.c.car);
        incref_tree(instance, p->value.c.cdr);
    }
    return incref_object(instance, p);
}

/* Function not used yet. Leave it commented out until we actually use it to
 * avoid compiler complaints */
#if 0
static struct alisp_object * incref_tree_explicit(struct alisp_instance *instance, struct alisp_object * p, struct
    alisp_object * e)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        if (e == p) {
            incref_tree(instance, p->value.c.car);
            incref_tree(instance, p->value.c.cdr);
        } else {
            incref_tree_explicit(instance, p->value.c.car, e);
            incref_tree_explicit(instance, p->value.c.cdr, e);
        }
    }
    if (e == p)
        return incref_object(instance, p);
    return p;
}
#endif

static void free_objects(struct alisp_instance *instance)
{
    struct list_head *pos, *pos1;
    struct alisp_object * p;
    struct alisp_object_pair * pair;
    int i, j;

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
            pair = list_entry(pos, struct alisp_object_pair, list);
            lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
        }
    }
}
delete_tree(instance, pair->value);
free((void *)pair->name);
free(pair);
}
}
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
list_for_each_safe(pos, pos1, &instance->used_objs_list[i][j]) {
p = list_entry(pos, struct alisp_object, list);
lisp_warn(instance, "object %p is still referenced %i times!", p, alisp_get_refs(p));
#if 0
snd_output_printf(instance->wout, ">>>> ");
princ_object(instance->wout, p);
snd_output_printf(instance->wout, " <<<<n");
#endif
if (alisp_get_refs(p) > 0)
alisp_set.refs(p, 1);
delete_object(instance, p);
}
}
list_for_each_safe(pos, pos1, &instance->free_objs_list) {
p = list_entry(pos, struct alisp_object, list);
list_del(&p->list);
free(p);
lisp.debug(instance, "freed (all) cons %p", p);
}

static struct alisp_object * search_object_identifier(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_IDENTIFIER]) {
p = list_entry(pos, struct alisp_object, list);
if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
continue;
if (!strcmp(p->value.s, s))
return incref_object(instance, p);
}
return NULL;
}

static struct alisp_object * search_object_string(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;
list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_STRING]) {
    p = list_entry(pos, struct alisp_object, list);
    if (!strcmp(p->value.s, s)) {
        if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
            continue;
        return incref_object(instance, p);
    }
}

return NULL;
}

static struct alisp_object * search_object_integer(struct alisp_instance *instance, long in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }
    return NULL;
}

static struct alisp_object * search_object_float(struct alisp_instance *instance, double in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)in &
          ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }
    return NULL;
}
static struct alisp_object * search_object_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.ptr == ptr) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * new_integer(struct alisp_instance *instance, long value)
{
    struct alisp_object * obj;

    obj = search_object_integer(instance, value);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_INTEGER);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]);
        obj->value.i = value;
    }
    return obj;
}

static struct alisp_object * new_float(struct alisp_instance *instance, double value)
{
    struct alisp_object * obj;

    obj = search_object_float(instance, value);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_FLOAT);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[(long)value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]);
        obj->value.f = value;
    }
}
return obj;
}

static struct alisp_object * new_string(struct alisp_instance *instance, const char *str)
{
struct alisp_object * obj;

obj = search_object_string(instance, str);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_STRING);
if (obj)
    list_add(&obj->list, &instance->used_objs_list[get_string_hash(str)][ALISP_OBJ_STRING]);
if (obj && (obj->value.s = strdup(str)) == NULL) {
    delete_object(instance, obj);
    nomem();
    return NULL;
}
return obj;
}

static struct alisp_object * new_identifier(struct alisp_instance *instance, const char *id)
{
struct alisp_object * obj;

obj = search_object_identifier(instance, id);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_IDENTIFIER);
if (obj)
    list_add(&obj->list, &instance->used_objs_list[get_string_hash(id)][ALISP_OBJ_IDENTIFIER]);
if (obj && (obj->value.s = strdup(id)) == NULL) {
    delete_object(instance, obj);
    nomem();
    return NULL;
}
return obj;
}

static struct alisp_object * new_pointer(struct alisp_instance *instance, const void *ptr)
{
struct alisp_object * obj;

obj = search_object_pointer(instance, ptr);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_POINTER);
if (obj) {
list_add(&obj->list, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIRHASH_MASK][ALISP_OBJ_POINTER]);
obj->value.ptr = ptr;
}
return obj;
}

static struct alisp_object * new_cons_pointer(struct alisp_instance * instance, const char *ptr_id, void *ptr)
{
struct alisp_object * lexpr;

if (ptr == NULL)
return &alsa_lisp_nil;
lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr == NULL)
return NULL;
lexpr->value.c.car = new_string(instance, ptr_id);
if (lexpr->value.c.car == NULL)
goto __end;
lexpr->value.c.cdr = new_pointer(instance, ptr);
if (lexpr->value.c.cdr == NULL) {
delete_object(instance, lexpr->value.c.car);
__end:
delete_object(instance, lexpr);
return NULL;
}
return lexpr;
}

void alsa_lisp_init_objects(void) __attribute__((constructor));

void alsa_lisp_init_objects(void)
{
memset(&alsa_lisp_nil, 0, sizeof(alsa_lisp_nil));
alisp_set_type(&alsa_lisp_nil, ALISP_OBJ_NIL);
INIT_LIST_HEAD(&alsa_lisp_nil.list);
memset(&alsa_lisp_t, 0, sizeof(alsa_lisp_t));
alisp_set_type(&alsa_lisp_t, ALISP_OBJ_T);
INIT_LIST_HEAD(&alsa_lisp_t.list);
}

/*
 * lexer
 */

static int xgetc(struct alisp_instance *instance)
{
instance->charno++;
}
if (instance->lex_bufp > instance->lex_buf)
return *--(instance->lex_bufp);
return snd_input_getc(instance->in);
}

static inline void xungetc(struct alisp_instance *instance, int c)
{
*(instance->lex_bufp)++ = c;
instance->charno--;
}

static int init_lex(struct alisp_instance *instance)
{
instance->charno = instance->lineno = 1;
instance->token_buffer_max = 10;
if ((instance->token_buffer = (char *)malloc(instance->token_buffer_max)) == NULL) {
    nomem();
    return -ENOMEM;
}
instance->lex_bufp = instance->lex_buf;
return 0;
}

static void done_lex(struct alisp_instance *instance)
{
free(instance->token_buffer);
}

static char * extend_buf(struct alisp_instance *instance, char *p)
{
int off = p - instance->token_buffer;

instance->token_buffer_max += 10;
instance->token_buffer = (char *)realloc(instance->token_buffer, instance->token_buffer_max);
if (instance->token_buffer == NULL) {
    nomem();
    return NULL;
}
return instance->token_buffer + off;
}

static int gettoken(struct alisp_instance *instance)
{
char *p;
int c;

for (;;) {

c = xgetc(instance);
switch (c) {
case 'n':
++instance->lineno;
break;

case ' ': case 'l': case 't': case 'v': case 'r':
break;

case ' ': /* Comment: "\n" */
while ((c = xgetc(instance)) != 'n' && c != EOF)
;
if (c != EOF)
++instance->lineno;
break;

case '?': /* Character: "?" */
c = xgetc(instance);
sprintf(instance->token_buffer, "%d", c);
return instance->thistoken = ALISP_INTEGER;

case '-': /* Minus sign: "-" */
c = xgetc(instance);
if (!isdigit(c)) {
xungetc(instance, c);
c = '-';
go to got id;
}
xungetc(instance, c);
c = '-';
/* FALLTHRU */

case '0':
case '1': case '2': case '3':
case '4': case '5': case '6':
case '7': case '8': case '9': /* Integer: [0-9]+ */
p = instance->token_buffer;
instance->thistoken = ALISP_INTEGER;
do {
__ok:
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
if (c == '.' && instance->thistoken == ALISP_INTEGER) {
c = xgetc(instance);
xungetc(instance, c);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOAT;
c = ';
goto __ok;
} else {
c = ';
}
} else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
c = xgetc(instance);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOATE;
goto __ok;
}
}
} while (isdigit(c));
xungetc(instance, c);
*p = \0;
return instance->thistoken;

got_id:
case '!': case '_': case '+' case '*': case '?': case '%':
case '<': case '>': case '=' case '&':
case 'a': case 'b': case 'c': case 'd': case 'e': case 'f':
case 'g': case 'h': case 'i': case 'j': case 'k': case 'l':
case 'm': case 'n': case 'o': case 'p': case 'q': case 'r':
case 's': case 't': case 'u': case 'v': case 'w': case 'x':
case 'y': case 'z':
case 'A': case 'B': case 'C': case 'D': case 'E': case 'F':
case 'G': case 'H': case 'I': case 'J': case 'K': case 'L':
case 'M': case 'N': case 'O': case 'P': case 'Q': case 'R':
case 'S': case 'T': case 'U': case 'V': case 'W': case 'X':
case 'Y': case 'Z':
/* Identifier: [!-+*%<>=&a-zA-Z_][-/+*%<>=&a-zA-Z_0-9]* */
p = instance->token_buffer;
do {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
} while (isalnum(c) || strchr("!_-+*/%<>=&", c) != NULL);
xungetc(instance, c);
*p = '\0';
return instance->thistoken = ALISP_IDENTIFIER;
case '"':
/* String: "\""([^"]|"\\".)*"\"" */
p = instance->token_buffer;
while ((c = xgetc(instance)) != '"' && c != EOF) {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
if (c == '\\') {
c = xgetc(instance);
switch (c) {
case '\n': ++instance->lineno; break;
case 'a': *p++ = '\a'; break;
case 'b': *p++ = '\b'; break;
case 'f': *p++ = '\f'; break;
case 'n': *p++ = '\n'; break;
case 'r': *p++ = '\r'; break;
case 't': *p++ = '\t'; break;
case 'v': *p++ = '\v'; break;
default: *p++ = c;
}
} else {
if (c == '\n')
++instance->lineno;
*p++ = c;
}
}
*p = '\0';
return instance->thistoken = ALISP_STRING;
default:
return instance->thistoken = c;
}
}
}
/*
* parser
*/
static struct alisp_object * parse_form(struct alisp_instance *instance)
{

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int thistoken;
struct alisp_object * p, * first = NULL, * prev = NULL;

while ((thistoken = gettoken(instance)) != ')' && thistoken != EOF) {
    /* Parse a dotted pair notation. */
    if (thistoken == '.') {
        gettoken(instance);
        if (prev == NULL) {
            lisp_error(instance, "unexpected ".");
            __err:
            delete_tree(instance, first);
            return NULL;
        }
        prev->value.c.cdr = parse_object(instance, 1);
        if (prev->value.c.cdr == NULL)
            goto __err;
        if ((thistoken = gettoken(instance)) != ')') {
            lisp_error(instance, "expected ")");
            goto __err;
        }
        break;
    }
    p = new_object(instance, ALISP_OBJ_CONS);
    if (p == NULL)
        goto __err;
    if (first == NULL)
        first = p;
    if (prev != NULL)
        prev->value.c.cdr = p;
    p->value.c.car = parse_object(instance, 1);
    if (p->value.c.car == NULL)
        goto __err;
    prev = p;
}

if (first == NULL)
    return &alsa_lisp_nil;
else
    return first;
}

static struct alisp_object * quote_object(struct alisp_instance *instance, struct alisp_object * obj)
struct alisp_object * p;

if (obj == NULL)
goto __end1;

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
goto __end1;

p->value.c.car = new_identifier(instance, "quote");
if (p->value.c.car == NULL)
goto __end;

p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
if (p->value.c.cdr == NULL) {
    delete_object(instance, p->value.c.car);
    __end:
    delete_object(instance, p);
    __end1:
    delete_tree(instance, obj);
    return NULL;
}

p->value.c.cdr->value.c.car = obj;
return p;
}

static inline struct alisp_object * parse_quote(struct alisp_instance *instance)
{
    return quote_object(instance, parse_object(instance, 0));
}

static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken)
{
    int thistoken;
    struct alisp_object * p = NULL;

    if (!havetoken)
        thistoken = gettoken(instance);
    else
        thistoken = instance->thistoken;

    switch (thistoken) {
    case EOF:
        break;
    case '\(':
        p = parse_form(instance);
        break;
case ":
p = parse_quote(instance);
break;
case ALISP_IDENTIFIER:
    if (!strcmp(instance->token_buffer, "t"))
        p = &alsa_lisp_t;
    else if (!strcmp(instance->token_buffer, "nil"))
        p = &alsa_lisp_nil;
    else {
        p = new_identifier(instance, instance->token_buffer);
    }
    break;
case ALISP_INTEGER:
    p = new_integer(instance, atol(instance->token_buffer));
    break;
}
case ALISP_FLOAT:
case ALISP_FLOATE:
    p = new_float(instance, atof(instance->token_buffer));
    break;
}
case ALISP_STRING:
p = new_string(instance, instance->token_buffer);
break;
default:
lisp_warn(instance, "%d:%d: unexpected character `\"e\"", instance->lineno, instance->charno, thistoken);
break;
}
return p;
}

/*
 * object manipulation
 */

static struct alisp_object_pair * set_object_direct(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
    struct alisp_object_pair *p;
    const char *id;

    id = name->value.s;
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
    if (p == NULL) {
        nomem();
        return NULL;
    }
p->name = strdup(id);
if (p->name == NULL) {
    delete_tree(instance, value);
    free(p);
    return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static int check_set_object(struct alisp_instance * instance, struct alisp_object * name)
{
    if (name == &alsa_lisp_nil) {
        lisp_warn(instance, "setting the value of a nil object");
        return 0;
    }
    if (name == &alsa_lisp_t) {
        lisp_warn(instance, "setting the value of a t object");
        return 0;
    }
    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "setting the value of an object with non-identifier");
        return 0;
    }
    return 1;
}

static struct alisp_object_pair * set_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
    struct list_head *pos;
    struct alisp_object_pair *p;
    const char *id;

    if (name == NULL || value == NULL)
        return NULL;

    id = name->value.s;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            delete_tree(instance, p->value);
            p->value = value;
            return p;
        }
    }

    return NULL;
}
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
    nomem();
    return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
    delete_tree(instance, value);
    free(p);
    return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static struct alisp_object * unset_object(struct alisp_instance *instance, struct alisp_object * name)
{
    struct list_head *pos;
    struct alisp_object *res;
    struct alisp_object_pair *p;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "unset object with a non-indentifier");
        return &alsa_lisp_nil;
    }
    id = name->value.s;
    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            list_del(&p->list);
            res = p->value;
            free((void *)p->name);
            free(p);
            return res;
        }
    }
    return &alsa_lisp_nil;
}

static struct alisp_object * get_object1(struct alisp_instance *instance, const char *id)
{
struct alisp_object_pair *p;
struct list_head *pos;

list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id))
    return p->value;
}

return &alsa_lisp_nil;
}

static struct alisp_object * get_object(struct alisp_instance *instance, struct alisp_object * name)
{
if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
    delete_tree(instance, name);
    return &alsa_lisp_nil;
}
return get_object1(instance, name->value.s);
}

static struct alisp_object * replace_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * onew)
{
struct alisp_object_pair *p;
struct alisp_object *r;
struct list_head *pos;
const char *id;

if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
    delete_tree(instance, name);
    return &alsa_lisp_nil;
}
id = name->value.s;
list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id)) {
    r = p->value;
    p->value = onew;
    return r;
}
}

return NULL;
static void dump_objects(struct alisp_instance *instance, const char *fname)
{
    struct alisp_object_pair *p;
    snd_output_t *out;
    struct list_head *pos;
    int i, err;

    if (!strcmp(fname, "."))
        err = snd_output_stdio_attach(&out, stdout, 0);
    else
        err = snd_output_stdio_open(&out, fname, "w");
    if (err < 0) {
        SNDERR("alisp: cannot open file '%%s' for writing (%%s)", fname, snd_strerror(errno));
        return;
    }

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each(pos, &instance->setobjs_list[i]) {
            p = list_entry(pos, struct alisp_object_pair, list);
            if (alisp_compare_type(p->value, ALISP_OBJ_CONS) &&
                alisp_compare_type(p->value->value.c.car, ALISP_OBJ_IDENTIFIER) &&
                !strcmp(p->value->value.c.car->value.s, "lambda") ) {
                snd_output_printf(out, "(defun %s ", p->name);
                princ_cons(out, p->value->value.c.cdr);
                snd_output_printf(out, ")
");
                continue;
            }
            snd_output_printf(out, "(setq %s ", p->name);
            princ_object(out, p->value);
            snd_output_printf(out, ")\n");
        }
        snd_output_close(out);
    }

    static const char *obj_type_str(struct alisp_object * p)
    {
        switch (alisp_get_type(p)) {
        case ALISP_OBJ_NIL: return "nil";
        case ALISP_OBJ_T: return "t";
        case ALISP_OBJ_INTEGER: return "integer";
        case ALISP_OBJ_FLOAT: return "float";
        case ALISP_OBJ_IDENTIFIER: return "identifier";
        case ALISP_OBJ_STRING: return "string";
        case ALISP_OBJ_POINTER: return "pointer";
        case ALISP_OBJ_CONS: return "cons";
        default: assert(0);
    }
static void print_obj_lists(struct alisp_instance *instance, snd_output_t *out)
{
    struct list_head *pos;
    struct alisp_object * p;
    int i, j;

    snd_output_printf(out, "** used objects\n");
    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
        for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
            list_for_each(pos, &instance->used_objs_list[i][j]) {
                p = list_entry(pos, struct alisp_object, list);
                snd_output_printf(out, "**   %p (%s) (refs=%i)\n",
                    p, obj_type_str(p), alisp_get_refs(p));
            }
    snd_output_printf(out, "** free objects\n");
    list_for_each(pos, &instance->free_objs_list) {
        p = list_entry(pos, struct alisp_object, list);
        snd_output_printf(out, "**   %p\n", p);
    }

static void dump_obj_lists(struct alisp_instance *instance, const char *fname)
{
    snd_output_t *out;
    int err;

    if (!strcmp(fname, "-"))
        err = snd_output_stdio_attach(&out, stdout, 0);
    else
        err = snd_output_stdio_open(&out, fname, "w+");
    if (err < 0) {
        SNDERR("alisp: cannot open file '%s' for writing (%s)", fname, snd_strerror(errno));
        return;
    }

    print_obj_lists(instance, out);

    snd_output_close(out);
}

/*
 * functions

static int count_list(struct alisp_object * p)
{
    int i = 0;

    while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS)) {
        p = p->value.c.cdr;
        ++i;
    }

    return i;
}

static inline struct alisp_object * car(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.car;

    return &alsa_lisp_nil;
}

static inline struct alisp_object * cdr(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.cdr;

    return &alsa_lisp_nil;
}

/*
 * Syntax: (car expr)
 */
static struct alisp_object * F_car(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
    delete_tree(instance, cdr(p1));
    p2 = car(p1);
    delete_object(instance, p1);
    return p2;
}

/*
 * Syntax: (cdr expr)
 */
static struct alisp_object * F_cdr(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
    delete_tree(instance, car(p1));
    p2 = cdr(p1);
    delete_object(instance, p1);
    return p2;
}

/*
 * Syntax: (+ expr...)
 */
static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;

    p1 = eval(instance, car(p));
    for (; ; ) {
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (type == ALISP_OBJ_FLOAT)
                f += p1->value.i;
            else
                v += p1->value.i;
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            f += p1->value.f + v;
            v = 0;
            type = ALISP_OBJ_FLOAT;
        } else {
            lisp_warn(instance, "sum with a non integer or float operand");
        }
        delete_tree(instance, p1);
        p = cdr(n = p);
        delete_object(instance, n);
        if (p == &alsa_lisp_nil)
            break;
        p1 = eval(instance, car(p));
    }
    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }
}
/*
 * Syntax: (concat expr...)
 */

static struct alisp_object * F_concat(struct alisp_instance *instance, struct alisp_object * args)
{

struct alisp_object * p = args, * p1, * n;
char *str = NULL, *str1;

p1 = eval(instance, car(p));
for (;; ) {
if (alisp_compare_type(p1, ALISP_OBJ_STRING)) {
str1 = realloc(str, (str ? strlen(str) : 0) + strlen(p1->value.s) + 1);
if (str1 == NULL) {
nomem();
free(str);
return NULL;
}
if (str == NULL)
strcpy(str1, p1->value.s);
else
strcat(str1, p1->value.s);
str = str1;
} else {
lisp_warn(instance, "concat with a non string or identifier operand");
}
delete_tree(instance, p1);
p = cdr(n = p);
delete_object(instance, n);
if (p == &alsa_lisp_nil)
break;
p1 = eval(instance, car(p));
}
if (str) {
p = new_string(instance, str);
free(str);
} else {
p = &alsa_lisp_nil;
}
return p;
}

/*
 * Syntax: (- expr...)
 */

static struct alisp_object * F_sub(struct alisp_instance *instance, struct alisp_object * args)
struct alisp_object * p = args, * p1, * n;
long v = 0;
double f = 0;
int type = ALISP_OBJ_INTEGER;

do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  if (p == args && cdr(p) != &alsa_lisp_nil) {
    v = p1->value.i;
  } else {
    if (type == ALISP_OBJ_FLOAT)
      f -= p1->value.i;
    else
      v -= p1->value.i;
  }
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
  if (type == ALISP_OBJ_INTEGER) {
    f = v;
    type = ALISP_OBJ_FLOAT;
  }
  if (p == args && cdr(p) != &alsa_lisp_nil)
    f = p1->value.f;
  else {
    f -= p1->value.f;
  }
  } else
    lisp_warn(instance, "difference with a non integer or float operand");
delete_tree(instance, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
  return new_integer(instance, v);
} else {
  return new_float(instance, f);
}

/*
 * Syntax: (+ expr...)
 */
static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args) {
  struct alisp_object * p = args, * p1, * n;
  long v = 1;

double f = 1;
int type = ALISP_OBJ_INTEGER;

do {
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        if (type == ALISP_OBJ_FLOAT)
            f *= p1->value.i;
        else
            v *= p1->value.i;
    } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
        f *= p1->value.f; v = 1;
        type = ALISP_OBJ_FLOAT;
    } else {
        lisp_warn(instance, "product with a non integer or float operand");
    }
    delete_tree(instance, p1);
    n = cdr(p);
    delete_object(instance, p);
    p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (/ expr...)
 */
static struct alisp_object * F_div(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;

    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (p == args && cdr(p) != &alsa_lisp_nil) {
                v = p1->value.i;
            } else {
                if (p1->value.i == 0) {
                    lisp_warn(instance, "division by zero");
                    v = 0;
                } else {
                    if (type == ALISP_OBJ_FLOAT) {
                        f *= p1->value.f;
                    } else {
                        v *= p1->value.i;
                    }
                }
            }
        } else {
            lisp_warn(instance, "division by zero");
            v = 0;
        }
    } while (p != &alsa_lisp_nil);
f = 0;
break;
} else {
if (type == ALISP_OBJ_FLOAT)
f /= p1->value.i;
else
v /= p1->value.i;
}
}
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
if (type == ALISP_OBJ_INTEGER) {
f = v;
type = ALISP_OBJ_FLOAT;
}
if (p == args && cdr(p) != &alsa_lisp_nil) {
f = p1->value.f;
} else {
if (p1->value.f == 0) {
lisp_warn(instance, "division by zero");
f = 0;
break;
} else {
f /= p1->value.i;
}
}
} else
lisp_warn(instance, "quotient with a non integer or float operand");
delete_tree(instance, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
return new_integer(instance, v);
} else {
return new_float(instance, f);
}

/*
 * Syntax: (% expr1 expr2)
 */

static struct alisp_object * F_mod(struct alisp_instance *instance, struct alisp_object *args)
{
struct alisp_object * p1, * p2, * p3;
p1 = eval(instance, car(args));

\begin{verbatim}
p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p2->value.i == 0) {
        lisp_warn(instance, "module by zero");
        p3 = new_integer(instance, 0);
    } else {
        p3 = new_integer(instance, p1->value.i % p2->value.i);
    }
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    f1 = fmod(f1, f2);
    if (f1 == EDOM) {
        lisp_warn(instance, "module by zero");
        p3 = new_float(instance, 0);
    } else {
        p3 = new_float(instance, f1);
    }
} else {
    lisp_warn(instance, "module with a non integer or float operand");
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return p3;
}

/*
 * Syntax: (< expr1 expr2)
 */
static struct alisp_object * F_lt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
\end{verbatim}
delete_tree(instance, cdr(cdr_args));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i < p2->value.i) {
        goto __true;
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_t;
    }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER)) ||
          alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
          alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 < f2)
        goto __true;
    } else {
    lisp_warn(instance, "comparison with a non integer or float operand");
    }

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (> expr1 expr2)
 */
static struct alisp_object * F_gt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i > p2->value.i) {
            goto __true;
        delete_tree(instance, p1);
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER)) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 < f2)
        goto __true;
    } else {
    lisp_warn(instance, "comparison with a non integer or float operand");
    }

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
delete_tree(instance, p2);
return &alsa_lisp_t;
}
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
      alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
      (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
      alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {  
  double f1, f2;
  f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
  f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
  if (f1 > f2)
    goto __true;
  else {
    lisp_warn(instance, "comparison with a non integer or float operand");
  }

  delete_tree(instance, p1);
  delete_tree(instance, p2);
  return &alsa_lisp_nil;
}

/*
 * Syntax: (<= expr1 expr2)
 */
static struct alisp_object * F_le(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, car(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
      alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i <= p2->value.i) {
      __true:
      delete_tree(instance, p1);
      delete_tree(instance, p2);
      return &alsa_lisp_t;
    }
  } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {  
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 <= f2)
goto __true;
} else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;

/*
 * Syntax: (>= expr1 expr2)
 */
static struct alisp_object * F_ge(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i >= p2->value.i) {
            __true:
            delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
        }
    }
if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER)) ||
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER))) {
    double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 >= f2)
goto __true;
} else {
lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
* Syntax: (= expr1 expr2)
*/
static struct alisp_object * F_numeq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i == p2->value.i) {
            goto __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
    } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        if (f1 == f2)
            goto __true;
        else {
            lisp_warn(instance, "comparison with a non integer or float operand");
        }
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
* Syntax: (!= expr1 expr2)
*/
static struct alisp_object * F_numneq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    return &alsa_lisp_nil;
}
p = F_numeq(instance, args);
if (p == &alsa_lisp_nil)
    return &alsa_lisp_t;
return &alsa_lisp_nil;
}

/*
 * Syntax: (exfun name)
 * Test, if a function exists
 */
static struct alisp_object * F_exfun(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p2 = get_object(instance, p1);
    if (p2 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        return &alsa_lisp_nil;
    }
    p2 = car(p2);
    if (alisp_compare_type(p2, ALISP_OBJ_IDENTIFIER) &&
        !strcmp(p2->value.s, "lambda") ) {
        delete_tree(instance, p1);
        return &alsa_lisp_t;
    }
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

static void princ_string(snd_output_t *out, char *s)
{
    char *p;

    snd_output_putstr(out, "");
    for (p = s; *p != '\0'; ++p)
        switch (*p) {
            case 'a': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'a'); break;
            case 'b': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'b'); break;
            case 'f': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'f'); break;
            case 'n': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'n'); break;
            case 'r': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'r'); break;
            case 't': snd_output_putchar(out, 'W'); snd_output_putchar(out, 't'); break;
            case 'v': snd_output_putchar(out, 'W'); snd_output_putchar(out, 'v'); break;
            case '\': snd_output_putchar(out, 'W'); snd_output_putchar(out, '\'); break;
            default: break;
        }
}
default: snd_output_putchar(out, *p);
}
snd_output_putchar(out, "");
}

static void princ_cons(snd_output_t *out, struct alisp_object * p)
{
do {
  princ_object(out, p->value.c.car);
p = p->value.c.cdr;
  if (p != &alsa_lisp_nil) {
    snd_output_putchar(out, ' ');
    if (!alisp_compare_type(p, ALISP_OBJ_CONS)) {
      snd_output_putchar(out, '. ');
      princ_object(out, p);
    }
  }
} while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS));
}

static void princ_object(snd_output_t *out, struct alisp_object * p)
{
  switch (alisp_get_type(p)) {
    case ALISP_OBJ_NIL:
      snd_output_printf(out, "nil");
      break;
    case ALISP_OBJ_T:
      snd_output_putchar(out, 't');
      break;
    case ALISP_OBJ_IDENTIFIER:
      snd_output_printf(out, "%s", p->value.s);
      break;
    case ALISP_OBJ_STRING:
      princ_string(out, p->value.s);
      break;
    case ALISP_OBJ_INTEGER:
      snd_output_printf(out, "%ld", p->value.i);
      break;
    case ALISP_OBJ_FLOAT:
      snd_output_printf(out, "%f", p->value.f);
      break;
    case ALISP_OBJ_POINTER:
      snd_output_printf(out, "<%p">", p->value.ptr);
      break;
    case ALISP_OBJ_CONS:
      snd_output_putchar(out, '(');
      princ_cons(out, p);
      snd_output_putchar(out, ')');
static struct alisp_object * F_princ(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;
    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_STRING))
            snd_output_printf(instance->out, "%s", p1->value.s);
        else
            princ_object(instance->out, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    } while (p != &alsa_lisp_nil);
    return p1;
}

static struct alisp_object * F_atom(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;
    p = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (p == NULL)
        return NULL;
    switch (alisp_get_type(p)) {
        case ALISP_OBJ_T:
        case ALISP_OBJNIL:
        case ALISP_OBJ_INTEGER:
        case ALISP_OBJ_FLOAT:
        case ALISP_OBJ_STRING:
        case ALISP_OBJ_IDENTIFIER:
        case ALISP_OBJ_POINTER:
            delete_tree(instance, p);
return &alsa_lisp_t;
default:
break;
}
delete_tree(instance, p);
return &alsa_lisp_nil;
}

/*
* Syntax: (cons expr1 expr2)
*/
static struct alisp_object * F_cons(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p;
p = new_object(instance, ALISP_OBJ_CONS);
if (p) {
p->value.c.car = eval(instance, car(args));
p->value.c.cdr = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
} else {
delete_tree(instance, args);
}
return p;
}

/*
* Syntax: (list expr1...)
*/
static struct alisp_object * F_list(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * first = NULL, * prev = NULL, * p1;
if (p == &alsa_lisp_nil)
return &alsa_lisp_nil;

do {
p1 = new_object(instance, ALISP_OBJ_CONS);
if (p1 == NULL) {
delete_tree(instance, p);
delete_tree(instance, first);
return NULL;
}
p1->value.c.car = eval(instance, car(p));
if (p1->value.c.car == NULL) {
    delete_tree(instance, first);
    delete_tree(instance, cdr(p));
    delete_object(instance, p);
    return NULL;
} 
if (first == NULL)
    first = p1;
if (prev != NULL)
    prev->value.c.cdr = p1;
    prev = p1;
    p = cdr(p1 = p);
    delete_object(instance, p1);
} while (p != &alsa_lisp_nil);
return first;
}

static inline int eq(struct alisp_object * p1, struct alisp_object * p2)
{
    return p1 == p2;
}

static int equal(struct alisp_object * p1, struct alisp_object * p2)
{
    int type1, type2;

    if (eq(p1, p2))
        return 1;

    type1 = alisp_get_type(p1);
    type2 = alisp_get_type(p2);

    if (type1 == ALISP_OBJ_CONS || type2 == ALISP_OBJ_CONS)
        return 0;

    if (type1 == type2) {
        switch (type1) {
            case ALISP_OBJ_STRING:
                return !strcmp(p1->value.s, p2->value.s);
            case ALISP_OBJ_INTEGER:
                return p1->value.i == p2->value.i;
            case ALISP_OBJ_FLOAT:
                return p1->value.f == p2->value.f;
        }
    }

    return 0;
static struct alisp_object * F_eq(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  if (eq(p1, p2)) {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_t;
  }
  delete_tree(instance, p1);
  delete_tree(instance, p2);
  return &alsa_lisp_nil;
}

static struct alisp_object * F_equal(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  if (equal(p1, p2)) {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_t;
  }
  delete_tree(instance, p1);
  delete_tree(instance, p2);
  return &alsa_lisp_nil;
}
/* 
 * Syntax: (quote expr) 
 */
static struct alisp_object * F_quote(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args)
{
    struct alisp_object *p = car(args);

delete_tree(instance, cdr(args));
delete_object(instance, args);
return p;
}

/*/ 
 * Syntax: (and expr...) 
 */
static struct alisp_object * F_and(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

do { 
    if (p1) 
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (p1 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p));
        delete_object(instance, p);
        return &alsa_lisp_nil;
    }
    p = cdr(n = p);
    delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}

/*/ 
 * Syntax: (or expr...) 
 */
static struct alisp_object * F_or(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

do { 
    if (p1) 
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (p1 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p));
        delete_object(instance, p);
        return &alsa_lisp_nil;
    }
    p = cdr(n = p);
    delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
if (p1 != &alsa_lisp_nil) {
    delete_tree(instance, cdr(p));
    delete_object(instance, p);
    return p1;
}

p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return &alsa_lisp_nil;
}

/*
* Syntax: (not expr)
* Syntax: (null expr)
*/

static struct alisp_object * F_not(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = eval(instance, car(args));

    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (p != &alsa_lisp_nil) {
        delete_tree(instance, p);
        return &alsa_lisp_nil;
    }

    delete_tree(instance, p);
    return &alsa_lisp_t;
}

/*
* Syntax: (cond (expr1 [expr2])...)
*/

static struct alisp_object * F_cond(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = args, * p1, * p2, * p3;

    do {
        p1 = car(p);
        if ((p2 = eval(instance, car(p1))) != &alsa_lisp_nil) {
            p3 = cdr(p1);
            delete_object(instance, p1);
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            if (p3 != &alsa_lisp_nil) {
                delete_tree(instance, p2);
                return F_progn(instance, p3);
            }
        }
    } while (p1 != &alsa_lisp_nil);
else {
delete_tree(instance, p3);
return p2;
}
else {
delete_tree(instance, p2);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
}
p = cdr(p2 = p);
delete_object(instance, p2);
while (p != &alsa_lisp_nil);
return &alsa_lisp_nil;
}

/*
* Syntax: (if expr then-expr else-expr...)
*/
static struct alisp_object * F_if(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3;
p1 = car(args);
p2 = car(cdr(args));
p3 = cdr(cdr(args));
delete_object(instance, cdr(args));
delete_object(instance, args);
p1 = eval(instance, p1);
if (p1 != &alsa_lisp_nil) {
delete_tree(instance, p1);
delete_tree(instance, p3);
return eval(instance, p2);
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return F_progn(instance, p3);
}

/*
* Syntax: (when expr then-expr...)
*/
static struct alisp_object * F_when(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2;
p1 = car(args);
p2 = cdr(args);
delete_object(instance, args);
if ((p1 = eval(instance, p1)) != &alsa_lisp_nil) {
delete_tree(instance, p1);
return F_progn(instance, p2);
} else {
delete_tree(instance, p1);
delete_tree(instance, p2);
}
return &alsa_lisp_nil;

/*
 * Syntax: (unless expr else-expr...)
 */
static struct alisp_object * F_unless(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2;

p1 = car(args);
p2 = cdr(args);
delete_object(instance, args);
if ((p1 = eval(instance, p1)) == &alsa_lisp_nil) {
return F_progn(instance, p2);
} else {
delete_tree(instance, p1);
delete_tree(instance, p2);
}
return &alsa_lisp_nil;

/*
 * Syntax: (while expr exprs...) 
 */
static struct alisp_object * F_while(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3;

p1 = car(args);
p2 = cdr(args);

delete_object(instance, args);
while (1) {
  incref_tree(instance, p1);
  if ((p3 = eval(instance, p1)) == &alsa_lisp_nil)
break;
delete_tree(instance, p3);
inc_ref_tree(instance, p2);
delete_tree(instance, F_progn(instance, p2));
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsalispnil;
}
/*
* Syntax: (progn expr...)
*/
static struct alisp_object * F_progn(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p = args, * p1 = NULL, * n;
do {
 if (p1)
delete_tree(instance, p1);
p1 = eval(instance, car(p));
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsalispnil);
return p1;
}

/*
* Syntax: (prog1 expr...)
*/
static struct alisp_object * F_prog1(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p = args, * first = NULL, * p1;
do {
 p1 = eval(instance, car(p));
if (first == NULL)
first = p1;
else
delete_tree(instance, p1);
p1 = cdr(p);
delete_object(instance, p);
p = p1;
} while (p != &alsalispnil);
if (first == NULL)
    first = &alsa_lisp_nil;

return first;
}

/*
 * Syntax: (prog2 expr...)
 */
static struct alisp_object * F_prog2(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * second = NULL, * p1;
    int i = 0;

    do {
        ++i;
        p1 = eval(instance, car(p));
        if (i == 2)
            second = p1;
        else
            delete_tree(instance, p1);
        p1 = cdr(p);
        delete_object(instance, p);
        p = p1;
    } while (p != &alsa_lisp_nil);

    if (second == NULL)
        second = &alsa_lisp_nil;

    return second;
}

/*
 * Syntax: (set name value)
 */
static struct alisp_object * F_set(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1 = eval(instance, car(args)),
        * p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);
    if (!check_set_object(instance, p1)) {
        delete_tree(instance, p2);
        p2 = &alsa_lisp_nil;
    } else {
        if (set_object(instance, p1, p2) == NULL) {


delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}

delete_tree(instance, p1);
return incref_tree(instance, p2);
}

/*
 * Syntax: (unset name)
 */
static struct alisp_object * F_unset(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = eval(instance, car(args));

delete_tree(instance, unset_object(instance, p1));
delete_tree(instance, cdr(args));
delete_object(instance, args);
return p1;
}

/*
 * Syntax: (setq name value...)
 * Syntax: (setf name value...)
 * `name' is not evalled
 */
static struct alisp_object * F_setq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2 = NULL, *n;

do {
    p1 = car(p);
p2 = eval(instance, car(cdr(p)));
n = cdr(cdr(p));
delete_object(instance, cdr(p));
delete_object(instance, p);
if (!check_set_object(instance, p1)) {
delete_tree(instance, p2);
p2 = &alsa_lisp_nil;
} else {
if (set_object(instance, p1, p2) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}
}
delete_tree(instance, p1);
p = n;
} while (p != &alsa_lisp_nil);

return incref_tree(instance, p2);
}

/*
* Syntax: (unsetq name...)
* Syntax: (unsetf name...)
* `name' is not evalled
*/
static struct alisp_object * F_unsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = unset_object(instance, car(p));
        delete_tree(instance, car(p));
        p = cdr(n = p);
        delete_object(instance, n);
    } while (p != &alsa_lisp_nil);

    return p1;
}

/*
* Syntax: (defun name arglist expr...)
* `name' is not evalled
* `arglist' is not evalled
*/
static struct alisp_object * F_defun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = car(args),
    * p2 = car(cdr(args)),
    * p3 = cdr(cdr(args));
struct alisp_object * lexpr;

    lexpr = new_object(instance, ALISP_OBJ_CONS);
    if (lexpr) {
        lexpr->value.c.car = new_identifier(instance, "lambda");
        if (lexpr->value.c.car == NULL) {
            delete_object(instance, lexpr);
            delete_tree(instance, args);
            return NULL;
        }
        if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
            delete_object(instance, lexpr);
            delete_tree(instance, args);
            return NULL;
        }
    }
}
delete_object(instance, lexpr->value.c.car);
delete_object(instance, lexpr);
delete_tree(instance, args);
return NULL;
}
lexpr->value.c.cdr->value.c.car = p2;
lexpr->value.c.cdr->value.c.cdr = p3;
delete_object(instance, cdr(args));
delete_object(instance, args);
if (set_object(instance, p1, lexpr) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, lexpr);
return NULL;
}
delete_tree(instance, p1);
} else {
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

static struct alisp_object * eval_func(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3, * p4;
struct alisp_object ** eval_objs, ** save_objs;
int i;
p1 = car(p);
if (alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER) &&
    !strcmp(p1->value.s, "lambda")) {
p2 = car(cdr(p));
p3 = args;
if ((i = count_list(p2)) != count_list(p3)) {
lisp_warn(instance, "wrong number of parameters");
goto _delete;
}
eval_objs = malloc(2 * i * sizeof(struct alisp_object *));
if (eval_objs == NULL) {
    nomem();
goto _delete;
}
save_objs = eval_objs + i;
/*
 * Save the new variable values.
/ * i = 0; while (p3 != &alsa_lisp_nil) { eval_objs[i++] = eval(instance, car(p3)); p3 = cdr(p4 = p3); delete_object(instance, p4); } */

/* * Save the old variable values and set the new ones. */

i = 0; while (p2 != &alsa_lisp_nil) {
p3 = car(p2);
save_objs[i] = replace_object(instance, p3, eval_objs[i]);
if (save_objs[i] == NULL &&
    set_object_direct(instance, p3, eval_objs[i]) == NULL) {
p4 = NULL;
goto _end;
}
p2 = cdr(p2);
++i;
}
p4 = F_progn(instance, cdr(incref_tree(instance, p3 = cdr(p))));

/* * Restore the old variable values. */

p2 = car(p3);
delete_object(instance, p3);
i = 0;
while (p2 != &alsa_lisp_nil) {
p3 = car(p2);
if (save_objs[i] == NULL) {
p3 = unset_object(instance, p3);
} else {
p3 = replace_object(instance, p3, save_objs[i]);
}
i++;
delete_tree(instance, p3);
delete_tree(instance, car(p2));
p2 = cdr(p3 = p2);
delete_object(instance, p3);
}

_end:
free(eval_objs);
return p4;
} else {
    _delete:
    delete_tree(instance, args);
}
return &alsa_lisp_nil;

struct alisp_object * F_gc(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args ATTRIBUTE_UNUSED)
{
    /* improved: no more traditional gc */
    return &alsa_lisp_t;
}

/*
 * Syntax: (path what)
 * what is string ('data')
 */
struct alisp_object * F_path(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (!alisp_compare_type(p1, ALISP_OBJ_STRING)) {
        delete_tree(instance, p1);
        return &alsa_lisp_nil;
    }
    if (!strcmp(p1->value.s, "data")) {
        delete_tree(instance, p1);
        return new_string(instance, snd_config_topdir());
    }
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (include filename...)  
 */
struct alisp_object * F_include(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1;
    int res = -ENOENT;
    do {  


```c
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_STRING))
    res = alisp_include_file(instance, p1->value.s);
delete_tree(instance, p1);
p = cdr(p1 = p);
delete_object(instance, p1);
} while (p != &alsa_lisp_nil);
return new_integer(instance, res);
}

/*
* Syntax: (string-to-integer value)
* 'value' can be integer or float type
*/
struct alisp_object * F_string_to_integer(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
    p1 = new_integer(instance, floor(p->value.f));
} else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

/*
* Syntax: (string-to-float value)
* 'value' can be integer or float type
*/
struct alisp_object * F_string_to_float(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
    p1 = new_float(instance, p->value.i);
} else {
```
lisp_warn(instance, "expected an integer or float for integer conversion");
p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

static int append_to_string(char **s, int *len, char *from, int size)
{
if (*len == 0) {
  *s = malloc(*len = size + 1);
  if (*s == NULL) {
    nomem();
    return -ENOMEM;
  }
  memcpy(*s, from, size);
} else {
  *len += size;
  *s = realloc(*s, *len);
  if (*s == NULL) {
    nomem();
    return -ENOMEM;
  }
  memcpy(*s + strlen(*s), from, size);
}
(*s)[*len - 1] = '\0';
return 0;
}

static int format_parse_char(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
  char b;

  if (!alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "format: expected integer\n");
    return 0;
  }
  b = p->value.i;
  return append_to_string(s, len, &b, 1);
}

static int format_parse_integer(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
  int res;
  char *s1;

  if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
      !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
    lisp_warn(instance, "format: expected integer\n");
    return 0;
  }
  b = p->value.i;
  return append_to_string(s, len, &b, 1);
}
lisp_warn(instance, "format: expected integer or float\n");
return 0;
}
s1 = malloc(64);
if (s1 == NULL) {
    nomem();
    return -ENOMEM;
}
sprintf(s1, "%li", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? (long)floor(p->value.f) : p->value.i);
res = append_to_string(s, len, s1, strlen(s1));
free(s1);
return res;
}

static int format_parse_float(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p) {
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%f", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? p->value.f : (double)p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_string(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p) {
    if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "format: expected string\n");
        return 0;
    }
    return append_to_string(s, len, p->value.s, strlen(p->value.s));
}

/*
 * Syntax: (format format value...)
 * 'format' is C-like format string
 */
struct alisp_object * F_format(struct alisp_instance *instance, struct alisp_object * args) 
{
    struct alisp_object * p = eval(instance, car(args)), * p1 = cdr(args), * n;
    char *s, *s1, *s2;
    int len;

    delete_object(instance, args);
    if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
        delete_tree(instance, p1);
        delete_tree(instance, p);
        lisp_warn(instance, "format: expected an format string");
        return &alsa_lisp_nil;
    }
    s = p->value.s;
    s1 = NULL;
    len = 0;
    n = eval(instance, car(p1));
    do {
        while (1) {
            s2 = s;
            while (*s2 && *s2 != '%')
                s2++;
            if (s2 != s) {
                if (append_to_string(&s1, &len, s, s2 - s) < 0) {
                    goto __error:
                }
            }
            if (*s2 == '%')
                s2++;
            switch (*s2) {
                case '%':
                    if (append_to_string(&s1, &len, s2, 1) < 0)
                        goto __error;
                    s = s2 + 1;
                    break;
                case 'c':
                    if (format_parse_char(instance, &s1, &len, s2, 1) < 0)
                        goto __error;
                    s = s2 + 1;
                    break;
                case 'd':
                    case 'i':
                        if (format_parse_integer(instance, &s1, &len, n) < 0)
                            goto __error;
                        s = s2 + 1;
                        break;
            }
        }
    }

    if (*s2 == '%')
        s2++;
    switch (*s2) {
        case '%':
            if (append_to_string(&s1, &len, s2, 1) < 0)
                goto __error;
            s = s2 + 1;
            break;
        case 'c':
            if (format_parse_char(instance, &s1, &len, n) < 0)
                goto __error;
            s = s2 + 1;
            goto __next;
        case 'd':
            case 'i':
                if (format_parse_integer(instance, &s1, &len, n) < 0)
                    goto __error;
                s = s2 + 1;
                goto __next;
    }
}
goto __error;
s = s2 + 1;
goto __next;
case 'f':
    if (format_parse_float(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
goto __next;
case 's':
    if (format_parse_string(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
goto __next;
case '0':
goto __end;
default:
lisp_warn(instance, "unknown format char '%c'", *s2);
s = s2 + 1;
goto __next;
}
}
__next:
delete_tree(instance, n);
p1 = cdr(n = p1);
delete_object(instance, n);
n = eval(instance, car(p1));
} while (*s);
__end:
delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
if (len > 0) {
p1 = new_string(instance, s1);
free(s1);
} else {
p1 = &alsa_lisp_nil;
}
return p1;

/*
* Syntax: (compare-strings str1 start1 end1 str2 start2 end2 /opt-case-insensitive)
* 'str1' is first compared string
* 'str1' is first char (0..)
* 'end1' is last char (0..)
* 'str2' is second compared string
* 'start2' is first char (0..)
struct alisp_object * F_compare_strings(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p1 = args, * n, * p[7];
    char *s1, *s2;
    int start1, end1, start2, end2;

    for (start1 = 0; start1 < 7; start1++) {
        p[start1] = eval(instance, car(p1));
        p1 = cdr(n = p1);
        delete_object(instance, n);
    }
    delete_tree(instance, p1);
    if (alisp_compare_type(p[0], ALISP_OBJ_STRING)) {
        lisp_warn(instance, "compare-strings: first argument must be string\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[1], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: second argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[2], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: third argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[3], ALISP_OBJ_STRING)) {
        lisp_warn(instance, "compare-strings: fifth argument must be string\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (!alisp_compare_type(p[4], ALISP_OBJ_NIL) &&
        !alisp_compare_type(p[4], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: fourth argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (!alisp_compare_type(p[5], ALISP_OBJ_NIL) &&
        !alisp_compare_type(p[5], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: sixth argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    s1 = p[0]->value.s;
}
start1 = p[1]->value.i;
end1 = p[2]->value.i;
s2 = p[3]->value.s;
start2 = alisp_compare_type(p[4], ALISP_OBJ_NIL) ? 0 : p[4]->value.i;
end2 = alisp_compare_type(p[5], ALISP_OBJ_NIL) ? start2 + (end1 - start1) : p[5]->value.i;
if (start1 < 0 || start2 < 0 || end1 < 0 || end2 < 0 ||
    start1 >= (int)strlen(s1) || start2 >= (int)strlen(s2) ||
    (end1 - start1) != (end2 - start2)) {
    p1 = &alsa_lisp_nil;
    goto __err;
}
if (p[6] != &alsa_lisp_nil) {
    while (start1 < end1) {
        if (s1[start1] == '\0' ||
            s2[start2] == '\0' ||
            tolower(s1[start1]) != tolower(s2[start2])) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
} else {
    while (start1 < end1) {
        if (s1[start1] == '\0' ||
            s2[start2] == '\0' ||
            s1[start1] != s2[start2]) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
}
p1 = &alsa_lisp_t;

__err:
    for (start1 = 0; start1 < 7; start1++)
        delete_tree(instance, p[start1]);
    return p1;
}

/*
 * Syntax: (assoc key alist)
 */

struct alisp_object * F_assoc(struct alisp_instance *instance, struct alisp_object *args)
{
    struct alisp_object * p1, * p2, * n:
p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
delete_object(instance, args);

do {
  if (eq(p1, car(car(p2)))) {
    n = car(p2);
    delete_tree(instance, p1);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
  }
  delete_tree(instance, car(p2));
  p2 = cdr(n = p2);
} while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
* Syntax: (rassoc value alist)
*/
struct alisp_object * F_rassoc(struct alisp_instance *instance, struct alisp_object * args) {
  struct alisp_object * p1, *p2, * n;

  p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
delete_object(instance, args);

do {
  if (eq(p1, cdr(car(p2)))) {
    n = car(p2);
    delete_tree(instance, p1);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
  }
  delete_tree(instance, car(p2));
  p2 = cdr(n = p2);
} delete_object(instance, n);
struct alisp_object * F_assq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    do {
        if (equal(p1, car(car(p2)))) {
            n = car(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);

    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

/*
 *  Syntax: (assq key alist)
 */

struct alisp_object * F_nth(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;
    long idx;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    do {
        if (equal(p1, car(car(p2)))) {
            n = car(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);

    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
delete_object(instance, args);

if (!alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
if (!alisp_compare_type(p2, ALISP_OBJ_CONS)) {
delete_object(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
idx = p1->value.i;
delete_object(instance, p1);
while (idx-- > 0) {
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
}
n = car(p2);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}

/*
 * Syntax: (rassq value alist)
 */
struct alisp_object * F_rassq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * n;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

do {
if (equal(p1, cdr(car(p2)))) {
    n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
}
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

static struct alisp_object * F_dump_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = car(args);
    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_objects(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_stat_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    snd_output_printf(instance->out, "*** Memory stats\n");
    snd_output_printf(instance->out, "  used_objs = %li, free_objs = %li, max_objs = %li, obj_size = %i (total bytes =
    %li, max bytes = %li)\n",
        instance->used_objs,
        instance->free_objs,
        instance->max_objs,
        (int)sizeof(struct alisp_object),
        (long)(instance->used_objs + instance->free_objs) * sizeof(struct alisp_object)),
        (long)(instance->max_objs * sizeof(struct alisp_object)));
    delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_check_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    delete_tree(instance, args);
    if (instance->used_objs > 0) {
        fprintf(stderr, "!!!alsa lisp - check memory failed!!!\n");
        F_stat_memory(instance, &alsa_lisp_nil);
        exit(EXIT_FAILURE);
static struct alisp_object * F_dump_objects(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = car(args);

    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_obj_lists(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

struct intrinsic {
    const char *name;
    struct alisp_object * (*func)(struct alisp_instance *instance, struct alisp_object * args);
};

static const struct intrinsic intrinsics[] = {
    { "!=" , F_numneq },
    { "%" , F_mod },
    { "&check-memory" , F_check_memory },
    { "&dump-memory" , F_dump_memory },
    { "&dump-objects" , F_dump_objects },
    { "&stat-memory" , F_stat_memory },
    { "*" , F_mul },
    { "+" , F_add },
    { "-" , F_sub },
    { "/" , F_div },
    { "<" , F_lt },
    { "<=" , F_le },
    { "=" , F_numeq },
    { ">" , F_gt },
    { ”>=” , F_ge },
    { "and" , F_and },
    { "assoc" , F_assoc },
    { "assq" , F_assq },
    { "atom" , F_atom },
{ "car", F_car },
{ "cdr", F_cdr },
{ "compare-strings", F_compare_strings },
{ "concat", F_concat },
{ "cond", F_cond },
{ "cons", F_cons },
{ "defun", F_defun },
{ "eq", F_eq },
{ "equal", F_equal },
{ "eval", F_eval },
{ "exfun", F_exfun },
{ "format", F_format },
{ "funcall", F_funcall },
{ "garbage-collect", F_gc },
{ "gc", F_gc },
{ "if", F_if },
{ "include", F_include },
{ "list", F_list },
{ "not", F_not },
{ "nth", F_nth },
{ "null", F_not },
{ "or", F_or },
{ "path", F_path },
{ "princ", F_princ },
{ "prog1", F_prog1 },
{ "prog2", F_prog2 },
{ "progn", F_progn },
{ "quote", F_quote },
{ "rassoc", F_rassoc },
{ "rassq", F_rassq },
{ "set", F_set },
{ "setf", F_setq },
{ "setq", F_setq },
{ "string-equal", F_equal },
{ "string-to-float", F_string_to_float },
{ "string-to-integer", F_string_to_integer },
{ "string-to-number", F_string_to_float },
{ "string=", F_equal },
{ "unless", F_unless },
{ "unset", F_unset },
{ "unsetf", F_unsetq },
{ "unsetq", F_unsetq },
{ "when", F_when },
{ "while", F_while },
);

#include "alisp_snd.c"
static int compar(const void *p1, const void *p2)
{
    return strcmp(((struct intrinsic *)p1)->name,
                   ((struct intrinsic *)p2)->name);
}

static inline struct alisp_object * eval_cons1(struct alisp_instance *instance, struct alisp_object * p1, struct alisp_object * p2)
{
    struct alisp_object * p3;
    struct intrinsic key, *item;

    key.name = p1->value.s;

    if ((item = bsearch(&key, intrinsics,
                          sizeof intrinsics / sizeof intrinsics[0],
                          sizeof intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((item = bsearch(&key, snd_intrinsics,
                          sizeof snd_intrinsics / sizeof snd_intrinsics[0],
                          sizeof snd_intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
        delete_object(instance, p1);
        return eval_func(instance, p3, p2);
    } else {
        lisp_warn(instance, "function '%s' is undefined", p1->value.s);
        delete_object(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (funcall function args...)
 */
static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

    if (!alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) &&
•
!alisp_compare_type(p, ALISP_OBJ_STRING)) {
    lisp_warn(instance, "expected an function name");
    delete_tree(instance, p);
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    return &alsa_lisp_nil;
}
P1 = cdr(args);
delete_object(instance, args);
return eval_cons1(instance, p, p1);
}

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p)
{
    struct alisp_object * p1 = car(p), * p2;

    if (p1 != &alsa_lisp_nil && alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER)) {
        if (!strcmp(p1->value.s, "lambda")
            return p;
        p2 = cdr(p);
        delete_object(instance, p);
        return eval_cons1(instance, p1, p2);
    } else {
        delete_tree(instance, p);
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_IDENTIFIER: {
        struct alisp_object *r = incref_tree(instance, get_object(instance, p));
        delete_object(instance, p);
        return r;
    }
    case ALISP_OBJ_INTEGER:
    case ALISP_OBJ_FLOAT:
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_POINTER:
        return p;
    case ALISP_OBJ_CONS:
        return eval_cons(instance, p);
    default:
        break;
    }
}
static struct alisp_object * F_eval(struct alisp_instance *instance, struct alisp_object * args)
{
  return eval(instance, eval(instance, car(args)));
}

static int alisp_include_file(struct alisp_instance *instance, const char *filename)
{
  snd_input_t *old_in;
  struct alisp_object *p, *p1;
  char *name;
  int retval = 0, err;

  err = snd_user_file(filename, &name);
  if (err < 0)
    return err;
  old_in = instance->in;
  err = snd_input_stdio_open(&instance->in, name, "r");
  if (err < 0) {
    retval = err;
    goto _err;
  }
  if (instance->verbose)
    lisp_verbose(instance, "** include filename '%s'", name);
  for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
      break;
    if (instance->verbose) {
      lisp_verbose(instance, "** code");
      princ_object(instance->vout, p);
      snd_output_putc(instance->vout, '\n');
    }
    p1 = eval(instance, p);
    if (p1 == NULL) {
      retval = -ENOMEM;
      break;
    }
    if (instance->verbose) {
      lisp_verbose(instance, "** result");
      princ_object(instance->vout, p1);
    }
  }
  return retval;
}

/*
*  main routine
*/

for (;;) {
  if ((p = parse_object(instance, 0)) == NULL)
    break;
  if (instance->verbose) {
    lisp_verbose(instance, "** code");
    princ_object(instance->vout, p);
    snd_output_putc(instance->vout, '\n');
  }
  p1 = eval(instance, p);
  if (p1 == NULL) {
    retval = -ENOMEM;
    break;
  }
  if (instance->verbose) {
    lisp_verbose(instance, "** result");
    princ_object(instance->vout, p1);
  }
}
snd_output_putchar(instance->vout, \n);
}
delete_tree(instance, p1);
if (instance->debug) {
lisp_debug(instance, "** objects after operation");
print_obj_lists(instance, instance->dout);
}
}

snd_input_close(instance->in);
__err:
free(name);
instance->in = old_in;
return retval;
}

int alsa_lisp(struct alisp_cfg *cfg, struct alisp_instance **_instance)
{
struct alisp_instance *instance;
struct alisp_object *p, *p1;
int i, j, retval = 0;

instance = (struct alisp_instance *)calloc(1, sizeof(struct alisp_instance));
if (instance == NULL) {
nomem();
return -ENOMEM;
}
instance->verbose = cfg->verbose && cfg->vout;
instance->warning = cfg->warning && cfg->wout;
instance->debug = cfg->debug && cfg->dout;
instance->in = cfg->in;
instance->out = cfg->out;
instance->vout = cfg->vout;
instance->eout = cfg->eout;
instance->wout = cfg->wout;
instance->dout = cfg->dout;
INIT_LIST_HEAD(&instance->free_objs_list);
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
    for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
        INIT_LIST_HEAD(&instance->used_objs_list[i][j]);
    INIT_LIST_HEAD(&instance->setobjs_list[i]);
}
init_lex(instance);

for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
        break;
if (instance->verbose) {
    lisp_verbose(instance, "** code");
    princ_object(instance->vout, p);
    snd_output_putchar(instance->vout, '\n');
}
p1 = eval(instance, p);
if (p1 == NULL) {
    retval = -ENOMEM;
    break;
}
if (instance->verbose) {
    lisp_verbose(instance, "** result");
    princ_object(instance->vout, p1);
    snd_output_putchar(instance->vout, '\n');
}
delete_tree (instance, p1);
if (instance->debug) {
    lisp_debug(instance, "** objects after operation");
    print_obj_lists (instance, instance->dout);
}
}

if (_instance)
    *_instance = instance;
else
    alsa_lisp_free(instance);

return retval;
}

void alsa_lisp_free(struct alisp_instance *instance)
{
    if (instance == NULL)
        return;
    done_lex(instance);
    free_objects(instance);
    free(instance);
}

struct alisp_cfg *alsa_lisp_default_cfg(snd_input_t *input)
{
    snd_output_t *output, *eoutput;
    struct alisp_cfg *cfg;
    int err;

    err = snd_output_stdio_attach(&output, stdout, 0);
    if (err < 0)
        return NULL;
    

err = snd_output_stdio_attach(&eoutput, stderr, 0);
if (err < 0) {
    snd_output_close(output);
    return NULL;
}
cfg = calloc(1, sizeof(struct alisp_cfg));
if (cfg == NULL) {
    snd_output_close(eoutput);
    snd_output_close(output);
    return NULL;
}
cfg->out = output;
cfg->wout = eoutput;
cfg->eout = eoutput;
cfg->dout = eoutput;
cfg->in = input;
return cfg;
}

void alsa_lisp_default_cfg_free(struct alisp_cfg *cfg)
{
snd_input_close(cfg->in);
snd_output_close(cfg->out);
snd_output_close(cfg->dout);
free(cfg);
}

int alsa_lisp_function(struct alisp_instance *instance, struct alisp_seq_iterator **result,
        const char *id, const char *args, ...)
{
    int err = 0;
    struct alisp_object *aargs = NULL, *obj, *res;

    if (args && *args != 'n') {
        va_list ap;
        struct alisp_object *p;
        p = NULL;
        va_start(ap, args);
        while (*args) {
            if (*args++ == '%' && *args++) {
                err = -EINVAL;
                break;
            }
        }
        va_end(ap);
        if (*args == '0') {
            err = -EINVAL;
            break;
        }
        obj = NULL;
    }
    return err;
}
err = 0;
switch (*args++) {
    case 's':
        obj = new_string(instance, va_arg(ap, char *));
        break;
    case 'i':
        obj = new_integer(instance, va_arg(ap, int));
        break;
    case 'l':
        obj = new_integer(instance, va_arg(ap, long));
        break;
    case 'f':
    case 'd':
        obj = new_integer(instance, va_arg(ap, double));
        break;
    case 'p': {
        char _ptrid[24];
        char *ptrid = _ptrid;
        while (*args && *args != '%')
            *ptrid++ = *args++;
        *ptrid = 0;
        if (ptrid == _ptrid) {
            err = -EINVAL;
            break;
        }
        obj = new_cons_pointer(instance, _ptrid, va_arg(ap, void *));
        obj = quote_object(instance, obj);
        break;
    }
    default:
        err = -EINVAL;
        break;
}
if (err < 0)
    goto __args_end;
if (obj == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
if (p == NULL) {
    p = aargs = new_object(instance, ALISP_OBJ_CONS);
} else {
    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
    p = p->value.c.cdr;
}
p->value.c.car = obj;

__args_end:
va_end(ap);
if (err < 0)
    return err;
#if 0
snd_output_printf(instance->wout, ">>>");
princ_object(instance->wout, aargs);
snd_output_printf(instance->wout, "<<<\n");
#endif

err = -ENOENT;
if (aargs == NULL)
aargs = &alsa_lisp_nil;
if ((obj = get_object1(instance, id)) != &alsa_lisp_nil) {
    res = eval_func(instance, obj, aargs);
    err = 0;
} else {
    struct intrinsic key, *item;
    key.name = id;
    if (((item = bsearch(&key, intrinsics,
                           sizeof intrinsics / sizeof intrinsics[0],
                           sizeof intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else if (((item = bsearch(&key, snd_intrinsics,
                               sizeof snd_intrinsics / sizeof snd_intrinsics[0],
                               sizeof snd_intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else {
        res = &alsa_lisp_nil;
    }
}
if (res == NULL)
    err = -ENOMEM;
if (err == 0 && result) {
    *result = res;
} else {
    delete_tree(instance, res);
}

return 0;
void alsa_lisp_result_free(struct alisp_instance *instance,
    struct alisp_seq_iterator *result)
{
    delete_tree(instance, result);
}

int alsa_lisp_seq_first(struct alisp_instance *instance, const char *id,
    struct alisp_seq_iterator **seq)
{
    struct alisp_object * p1;

    p1 = get_object1(instance, id);
    if (p1 == NULL)
        return -ENOMEM;
    *seq = p1;
    return 0;
}

int alsa_lisp_seq_next(struct alisp_seq_iterator **seq)
{
    struct alisp_object * p1 = *seq;

    p1 = cdr(p1);
    if (p1 == &alsa_lisp_nil)
        return -ENOENT;
    *seq = p1;
    return 0;
}

int alsa_lisp_seq_count(struct alisp_seq_iterator *seq)
{
    int count = 0;

    while (seq != &alsa_lisp_nil) {
        count++;
        seq = cdr(seq);
    }
    return count;
}

int alsa_lisp_seq_integer(struct alisp_seq_iterator *seq, long *val)
{
    if (alisp_compare_type(seq, ALISP_OBJ_CONS))
        seq = seq->value.c.cdr;
    if (alisp_compare_type(seq, ALISP_OBJ_INTEGER))
        *val = seq->value.i;
    else
        return -EINVAL;
return 0;
}

int alsa_lisp_seq_pointer(struct alisp_seq_iterator *seq, const char *ptr_id, void **ptr)
{
struct alisp_object * p2;

if (alisp_compare_type(seq, ALISP_OBJ_CONS) &&
    alisp_compare_type(seq->value.c.car, ALISP_OBJ_CONS))
    seq = seq->value.c.car;
if (alisp_compare_type(seq, ALISP_OBJ_CONS)) {
p2 = seq->value.c.car;
if (!alisp_compare_type(p2, ALISP_OBJ_STRING))
    return -EINVAL;
if (strcmp(p2->value.s, ptr_id))
    return -EINVAL;
p2 = seq->value.c.cdr;
if (!alisp_compare_type(p2, ALISP_OBJ_POINTER))
    return -EINVAL;
*ptr = (void *)seq->value.ptr;
} else
    return -EINVAL;
return 0;
}

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1.219 jackson-databind 2.6.3

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1.221 tomcat-embed-websocket 9.0.8
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1.222 apache-log4j 2.11.1

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1.223 jackson-module-parameter-names 2.9.8

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a982da308228d796df35f98d787c5cffe2bb5b6.

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

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.237 jersey-metainf-services 2.22.1
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1.239 which 2.20-7.el7

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*uganda.txt*    For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL   by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY
*iccf* *ICCF*

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

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

=== begin of license ===

VIM LICENSE

1) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
eamples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in
      the distribution how to contact you. When the maintainer asks you
      (in any way) for a copy of the modified Vim you distributed, you
      must make your changes, including source code, available to the
      maintainer without fee. The maintainer reserves the right to
      include your changes in the official version of Vim. What the
      maintainer will do with your changes and under what license they
      will be distributed is negotiable. If there has been no negotiation
      then this license, or a later version, also applies to your changes.
      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
      impossible to contact the maintainer, the obligation to send him
      your changes ceases. Once the maintainer has confirmed that he has
      received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as
      mentioned under a) you are allowed to further distribute it
      unmodified, as mentioned at I). If you make additional changes the
      text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of
      the modified Vim you distribute. This may be done in the form of a
      context diff. You can choose what license to use for new code you
      add. The changes and their license must not restrict others from
      making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned
      under c), you can distribute it without the source code for the
      changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute
        the changes to the Vim maintainer without fee or restriction, and
        permits the Vim maintainer to include the changes in the official
        version of Vim without fee or restriction.
      - You keep the changes for at least three years after last
        distributing the corresponding modified Vim. When the maintainer
        or someone who you distributed the modified Vim to asks you (in
        any way) for the changes within this period, you must make them
        available to him.
      - You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

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

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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

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

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q 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
Finsterruethof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:noet:ft=help:norl:
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   Version 2.1, February 1999

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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The End

1.249 libtirpc 0.2.4 0.16.el7
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1.250 spring-boot-starter-web 2.0.4.RELEASE

1.251 commons-io 2.6

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1.252 hibernate-validator 6.0.9.Final

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  * Hibernate Validator, declare and validate application constraints
  *
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  */

/**
  * Retrieves constraint related meta data for the parameters of the given executable.
  *
  * @param executable The executable of interest.
  *
  * @return A list with parameter meta data for the given executable.
  */
Found in path(s):
*/

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 * Hibernate Validator, declare and validate application constraints
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 */

/* A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

/*
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 */

/*
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 */

<pre>
 {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
 * public void createEvent(Date start, Date end) { ... }
 }
</pre>

/*
 * Can be specified on any method or constructor.
 */

/*
 * @author Gunnar Morling
 */
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/aggregated/CascadingMetaData.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForShort.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/ReturnValueMayOnlyBeMarkedOnceAsCascadedPerH
ierarchyLine.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/raw/ConstrainedParameter.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/engine/ValidatorContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptionsImpl.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForBigInte
ger.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/xml/ValidationBootstrapParameters.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/constraints/pl/NIP.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfByte.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/util/Version.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/location/BeanConstraintLocation.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForNumber
.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ClassBasedValidatorDescriptor.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/cfg/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfInt.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/path/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/InterpolationTermState.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForZonedDateTime.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/core/MetaConstraints.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/provider/ProgrammaticMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfFloat.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/metadata/metaData/provider/PESELDef.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/pl/PolishNumberValidator.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/ZeroSignValidatorForBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForZonedDateTime.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/TimeValidator0.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfInt.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/path/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/indexer/package-info.java
jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/cfg/context/ContainerElementConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/cfg/defs/EmailDef.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/spi/scripting/ScriptEvaluatorFactory.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/register/package-info.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalDoubleValueExtractor.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/cfg/defs/PatternDef.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForFloat.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalNumberComparatorHelper.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/SetContextClassLoader.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/NIPValidator.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/utility/classpath/Filter.java
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java

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* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/META-INF/validation-mapping-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/META-INF/validation-configuration-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-jar/META-INF/validation-configuration-1.1.xsd
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*/
* /opt/ws_local/PERMITS_SQL/1068333960_1594383237.43/0/hibernate-validator-6-0-9-final-sources-2-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

1.253 curator-client 2.12.0
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1.254 jopt-simple 5.0.2

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* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/Columns.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/Rows.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/Row.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/util/DateConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/Classes.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/HelpFormatter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
  jar/joptsimple/internal/Strings.java
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* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5.0.2-sources-1-jar/joptsimple/util/EnumConverter.java

1.255 grep 2.20 3.el7
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1.270 swagger-annotations 1.5.14
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   */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

  /**
   * The name of the license.
   * @return the name of the license
   */
  String name();

  /**
   * An optional URL for the license.
   * @return an optional URL for the license.
   */
  String url() default "";
}
1.272 libglvnd 1.0.1 0.8.git5baa1e5.el7

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<head>
<link rel="stylesheet" type="text/css" href="styles.css" />
<title>uthash: a hash table for C structures</title>
</head>
<body>

<div id="banner">
<img src="banner.png" alt="uthash: a hash table for C structures" />
</div> <!-- banner -->

<div id="topnav">
<a href="http://troydhanson.github.com/uthash/">uthash home</a> >
BSD license
</div>

<hr />

</body>
</html>
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1.273 scipy 1.4.1

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1.277 httpcore-nio 4.4.5

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1.279 mapstruct 1.2.0.Final

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151 144 142   Index 10
1.287 netty-resolver 4.1.13.Final

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jar/io/netty/resolver/CompositeNameResolver.java
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* /opt/cola/permits/1095812566_1601503628.6/0/netty-resolver-4-1-13-final-sources-1.jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1095812566_1601503628.6/0/netty-resolver-4-1-13-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
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* /opt/cola/permits/1095812566_1601503628.6/0/netty-resolver-4-1-13-final-sources-1-jar/io/netty/resolver/NoopAddressResolverGroup.java
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1.288 calcite-core 1.20.0

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire build system we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.295 zlib 1.2.3

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1.296 slf4j-log4j 1.6.6

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1.297 openssl 1.0.2k
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* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
  jar/org/springframework/messaging/support/AbstractSubscribableChannel.java
* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
  jar/org/springframework/messaging/simp/user/UserDestinationResolver.java
* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
  jar/org/springframework/messaging/handler/annotation/support/PayloadArgumentResolver.java
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  jar/org/springframework/messaging/handler/annotation/SendTo.java
* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
  jar/org/springframework/messaging/handler/annotation/SendToUser.java
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  jar/org/springframework/messaging/tcp/reactor/ReactorNettyCodec.java
* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5-0-5-release-sources-1-
  jar/org/springframework/messaging/simp/stomp/StompReactorNettyCodec.java
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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor] for
 * more details.
 * <p>By default this is set to [@code Integer.MAX_VALUE].
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* /opt/ws_local/PERMITS_SQL/1071966019_1594967620.52/0/spring-messaging-5.0.5-release-sources-1.jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java
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1.303 jackson-dataformat-smile 2.8.6

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1.304 spring-boot-starter-tomcat

2.0.3.RELEASE

1.305 asm 5.0.3
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1.306 netty-codec-http 4.1.13.Final

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* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/websocket/WebSocket13FrameDecoder.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/websocket/WebSocket07FrameEncoder.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/websocket/WebSocket08FrameDecoder.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/websocket/WebSocketClientHandshaker07.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/HttpContent.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/HttpHeaders.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdySession.java

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 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
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 */

Found in path(s):
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/TextWebSocketFrame.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/WebSocketClientHandshaker07.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/WebSocketServerHandshaker13.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/multipart/HttpPostBodyUtil.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/multipart/MemoryFileUpload.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/HttpHeaders.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/HttpContentCompressor.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdySession.java

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

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No license file was found, but licenses were detected in source scan.

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 * under the License.
 */

/* Adaptation of http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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 *
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SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java
No license file was found, but licenses were detected in source scan.

/*
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* "License"); you may not use this file except in compliance with the License. You may obtain a
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* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/HttpClientUpgradeHandler.java
* /opt/cola/permits/1095813022_1601503615.5/0/netty-codec-http-4-1-13-final-sources-1-
jar/io/netty/handler/codec/HttpServerUpgradeHandler.java

1.307 setup 2.8.71 10.el7
1.307.1 Available under license:
Setup package is public domain.

You are free to use, copy, distribute or modify included files without restrictions.

1.308 cracklib 2.9.0-11.el7
1.308.1 Available under license:

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

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

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
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> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

Attachments: Message as HTML
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change until it was mentioned in the latest notes.

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eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =20
a=20
library to dictact to application writes what license they should be using. =20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
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> -----Original Message-----
> From: cracklib-devel-bounces@li....
> [mailto:cracklib-devel-bounces@li....] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li....; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
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> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
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> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

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

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

-mike

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id l1cOcX-0004Qte-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCCD74E235CE4F4F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

Open Source Used In Network Insights Resources (version 5.0.1) 5.0.1 2531
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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-----------

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

-----------

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

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-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
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---

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-- Nathan

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

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

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
> >the original license (before moving to sourceforge -- aka, 2.7) was
not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
place of a
> > library to dictact to application writes what license they should
be using.
> > thus LGPL-2.1 enters to fill this void.
> -mike

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

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

-a

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

-mike

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

yes. go for it. thanks++

-a

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

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

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

-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

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

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

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

Happy now? :-)

-a

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Version 2.1, February 1999

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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
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Any executables containing that work also fall under Section 6,
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1.309 unzip 6.0 21.el7
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----------------------------------------
There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

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There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* 
* A collection of File Manager and related routines
* 
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* with significant code contributions by Nitin Ganatra
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* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
dlls), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
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-------------------------------------------------------------------------

1.310 libffi 3.0.13 18.el7
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1.312 python-iniparse 0.4-6.ph3

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

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

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

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

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1.318 perl-encode 2.51-7.el7

1.318.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/META.yml
No license file was found, but licenses were detected in source scan.

Encode::$_Name_ version 0.1

======

NAME
  Encode::$_Name_ - <describe encoding>

SYNOPSIS
  use Encode::$_Name_;
  #=><put more words here>

ABSTRACT
  <fill this in>

INSTALLATION

To install this module type the following:
perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires perl version 5.7.3 or later.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nPh1518/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/Encode/README.e2x
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

is a proprietary name.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets     = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents
Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=item L<Encode::Alias> - Alias definitions to encodings
=item L<Encode::Encoding> - Encode Implementation Base Class
=item L<Encode::Supported> - List of Supported Encodings
=item L<Encode::CN> - Simplified Chinese Encodings
=item L<Encode::JP> - Japanese Encodings
=item L<Encode::KR> - Korean Encodings
=item L<Encode::TW> - Traditional Chinese Encodings

=head1 DESCRIPTION

The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of I<characters>.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by C<ord(I<S>)> is the I<Unicode codepoint> for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".
This document mostly explains the I<how>. L<perlunitut> and L<perlunifaq> explain the I<why>.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$octets  = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

$octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>; then $octets is I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.
This function returns the string that results from decoding the scalar value $OCTETS>, assumed to be a sequence of octets in $ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), $ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for $CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

$string = decode("iso-8859-1", $octets);

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> then $string I<might not be equal to> $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.
Besides L</decode> and L</encode>, other methods are available as well. For instance, C<name()> returns the canonical name of the encoding object.

```perl
find_encoding("latin1")->name; # iso-8859-1
```

See L<Encode::Encoding> for details.

=head3 from_to

```perl
$length = from_to($octets, FROM_ENC, TO_ENC [, CHECK])
```

Converts I<in-place> data between two encodings. The data in $octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

```perl
from_to($octets, "iso-8859-1", "cp1250");
```

and to convert it back:

```perl
from_to($octets, "cp1250", "iso-8859-1");
```

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

```perl
from_to($data, "iso-8859-1", "utf8"); #1
$data = decode("iso-8859-1", $data); #2
```

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

```perl
$data = encode("utf8", decode("iso-8859-1", $data));
```

See L</"The UTF8 flag"> below.

Also note that:

```perl
from_to($octets, $from, $to, $check);
```
is equivalent t:o

\$octets = encode($to, decode($from, \$octets), $check);

Yes, it does I<not> respect the $check during decoding. It is
deliberately done that way. If you need minute control, use C<decode>
followed by C<encode> as follows:

\$octets = encode($to, decode($from, \$octets, $check_from), $check_to);

=head3 encode_utf8

\$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in
\$string are encoded in Perl's internal format, and the result is returned
as a sequence of octets. Because all possible characters in Perl have a
(loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

\$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>.
The sequence of octets represented by \$octets is decoded
from UTF-8 into a sequence of logical characters.
Because not all sequences of octets are valid UTF-8,
it is quite possible for this function to fail.
For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already
been loaded. To get a list of all available encodings including those that
have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode::JP");

When "C<::>" is not in the name, "C<Encode::>" is assumed.
@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve_alias()> , which returns the canonical name thereof. For example:

    Encode::resolve_alias("latin1") eq "iso-8859-1" # true
    Encode::resolve_alias("iso-8859-12")   # false; nonexistent
    Encode::resolve_alias($name) eq $name  # true if $name is canonical

C<resolve_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.

See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;    # utf-8-strict
warn $enc->mime_name; # UTF-8

See also:  L<Encode::Encoding>

=head1 Encoding via PerlIO


If your perl supports \texttt{PerlIO} (which is the default), you can use a \texttt{PerlIO} layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

### Version 1 via \texttt{PerlIO}

```perl
open(INPUT,  "< :encoding(shiftjis)", $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)",  $outfile)
  || die "Can't open > $output for writing: $!";
while (<INPUT>) {   # auto decodes \$_
    print OUTPUT;   # auto encodes \$_
}
close(INPUT)   || die "can't close $infile: $!";
close(OUTPUT)  || die "can't close $outfile: $!";
```

### Version 2 via \texttt{from_to()}

```perl
open(INPUT,  "< :raw", $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw",  $outfile)
  || die "Can't open > $output for writing: $!";
while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT)   || die "can't close $infile: $!";
close(OUTPUT)  || die "can't close $outfile: $!";
```

In the first version above, you let the appropriate encoding layer handle the conversion. In the second, you explicitly translate from one encoding to the other.

Unfortunately, it may be that encodings are \texttt{PerlIO}-savvy. You can check to see whether your encoding is supported by \texttt{PerlIO} by invoking the \texttt{perlio_ok} method on it:

```perl
Encode::perlio_ok("hz");             # false
find_encoding("euc-cn")->perlio_ok;  # true wherever PerlIO is available
```

use Encode qw(perlio_ok);            # imported upon request

```
perlio_ok("euc-jp")
```

Fortunately, all encodings that come with \texttt{Encode} core are \texttt{PerlIO}-savvy except for \texttt{hz} and \texttt{ISO-2022-kr}. For the gory details, see \texttt{L<Encode::Encoding>} and \texttt{L<Encode::PerlIO>}. 

=head1 Handling Malformed Data
The optional `<CHECK>` argument tells `<Encode>` what to do when
encountering malformed data. Without `<CHECK>`, `<Encode::FB_DEFAULT>`
(== 0) is assumed.

As of version 2.12, `<Encode>` supports coderef values for `<CHECK>`;
see below.

**NOTE:** Not all encodings support this feature.
Some encodings ignore the `<CHECK>` argument. For example,
`<Encode::Unicode>` ignores `<CHECK>` and it always croaks on error.

=head2 List of `<CHECK>` values

=head3 FB_DEFAULT

I `<CHECK>` = Encode::FB_DEFAULT ( == 0)

If `<CHECK>` is 0, encoding and decoding replace any malformed character
with a substitution character. When you encode, `<SUBCHAR>` is used.
When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is
used. If the data is supposed to be UTF-8, an optional lexical warning of
warning category C<"utf8"> is given.

=head3 FB_CROAK

I `<CHECK>` = Encode::FB_CROAK ( == 1)

If `<CHECK>` is 1, methods immediately die with an error
message. Therefore, when `<CHECK>` is 1, you should trap
exceptions with C<eval{}>, unless you really want to let it C<die>.

=head3 FB_QUIET

I `<CHECK>` = Encode::FB_QUIET

If `<CHECK>` is set to `<Encode::FB_QUIET>`, encoding and decoding immediately
return the portion of the data that has been processed so far when an
error occurs. The data argument is overwritten with everything
after that point; that is, the unprocessed portion of the data. This is
handy when you have to call C<decode> repeatedly in the case where your
source data may contain partial multi-byte character sequences,
(that is, you are reading with a fixed-width buffer). Here's some sample
code to do exactly that:

```perl
my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
```
=head3 FB_WARN

I<CHECK> = Encode::FB_WARN

This is the same as C<FB QUIET> above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

=over 2

=item perlqq mode (I<CHECK> = Encode::FB_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB_XMLCREF)

=back

For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<==>
C<Encode::FB_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where
I<HH> is the hex representation of the octet that could not be decoded to utf8. When you encode, C<\x{I<HHHH>> will be inserted, where I<HHHH> is
the Unicode code point (in any number of hex digits) of the character that
cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of
C<\x{I<HHHH>>>, HTML uses C<&#I<NNN>;> where I<NNN> is a decimal number, and
XML uses C<&#xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB I<XXX>>
constants are laid out. You can import the C<FB I<XXX>> constants via
C<use Encode qw(fallbacks)>, and you can import the generic bitmask
constants via C<use Encode qw(fallback_all)>.

<table>
<thead>
<tr>
<th>FB_DEFAULT</th>
<th>FB_CROAK</th>
<th>FB QUIET</th>
<th>FB_WARN</th>
<th>FB_PERLQQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIE_ON_ERR</td>
<td>0x0001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WARN_ON_ERR</td>
<td>0x0002</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETURN_ON_ERR</td>
<td>0x0004</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>LEAVE_SRC</td>
<td>0x0008</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
=head3 LEAVE_SRC

_encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is I<not> set but I<CHECK> is set, then the source string to encode() or decode() will be overwritten in place. If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

$ascii = encode("ascii", $utf8, sub{ printf "<U+%04X>", shift });

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C<\x{I<XXXX>}>.

=head1 Defining Encodings

To define a new encoding, use:

use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);

I<CANONICAL_NAME> will be associated with I<$object>. The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:
Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item *

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

When $octet is... The UTF8 flag in $utf8 is
---------------------------------------------
In ASCII only (or EBCDIC only) OFF
In ISO-8859-1 ON
In any other Encoding ON
---------------------------------------------
As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

=head3 _utf8_on

_utf8_on(STRING)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don't treat the return value as indicating success or failure), or C<undef> if I<STRING> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<STRING> is not a string. Do not treat the return value as indicative of
success or failure, because that isn't what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head1 UTF-8 vs. utf8 vs. UTF8

...We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFD0 .. 0xFDEF, the last two code points in I<any> plane (0xFFE and 0xFFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B<"UTF-8"> means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B<"utf8"> means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C<"UTF-8"> and C<"utf8">.
encode("utf8", "\x{FFFF_FFFF}", 1); # okay
encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C<"UTF-8"> is actually a canonical name for C<"utf-8-strict">. That hyphen between the C<"UTF"> and the C<"8"> is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

find_encoding("UTF-8")->name # is 'utf-8-strict'
find_encoding("utf-8")->name # ditto. names are case insensitive
find_encoding("utf_8")->name # ditto. "_" are treated as "-"
find_encoding("UTF8")->name # is 'utf8'.

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,
L<Encode::Supported>,
L<Encode::PerlIO>,
L<encoding>,
L<perlebcdic>,
L<perlfunc/open>,
L<perlunicode>, L<perluniintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS for a full list of people involved. For any questions, send mail to I<< <perl-unicode@perl.org> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit should go to all those involved. See AUTHORS for a list of those who submitted code to the project.

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=cut

Found in path(s):
1.319 spring-boot-starter-tomcat

2.0.4.RELEASE

1.319.1 Available under license:
No license file was found, but licenses were detected in source scan.

  <name>Apache License, Version 2.0</name>
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* /opt/ws_local/PERMITS_SQL/1068965820_1594436881.24/0/spring-boot-starter-tomcat-2.0.4-release-sources-1-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-tomcat/pom.xml

1.320 spring-boot-starter-log4j2

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1.321 datadog-zstd 1.3.5

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1.322 mesa 18.3.4-6.el7_7

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Yes to both questions.

Thanks,
Jorge

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

  Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.323 httpcomponents-client 4.5.6
1.323.1 Available under license:

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

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.336 guava 29.0-android

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Utf8.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
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jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
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/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
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jar/com/google/common/html/HtmlEscapers.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Splitter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/ByteArrayDataInput.java
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jar/com/google/common/io/ByteArrayDataOutput.java
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jar/com/google/common/util/concurrent/Service.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/LineProcessor.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SettableFuture.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Count.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedMultisetFauxverifyShim.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Platform.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/TreeBasedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ImmutableEntry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/EmptyImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Tables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Table.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Collections2.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Serialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Range.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/UnmodifiableIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/StandardRowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/HashBasedTable.java
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jar/com/google/common/base/Strings.java
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jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/collect/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/base/CommonMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-jar/com/google/common/base/CommonPattern.java

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-<code>Comparable</code>
key.</b> Proper calls will resolve to the version in <code>ImmutableSortedMap</code>, not this dummy
version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type <code>Comparable</code> to use <code>ImmutableSortedMap</code> instead.</b>
 */

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is “safe” in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.

*<p>This method assumes that the collection size doesn't change while the method is running.

*<p>TOD(kevinb): support concurrently modified collections?

* @param c the collection for which to return an array of elements

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ObjectArrays.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ForwardingSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Ordering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/MutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ExplicitOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Multiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/Interner.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collections/LinkedHashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/Iterables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Maps.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Multimaps.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ComparatorOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/HashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractMapEntry.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Platform.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/MacHashFunction.java
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jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/MinMaxPriorityQueue.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/CharMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Converter.java
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  jar/com/google/common/hash/BloomFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/ParseRequest.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/collect/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/math/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/collect/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/math/Crc32cHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/math/Hashing.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/cache/ForwardingCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/DescendingImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeParameter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/collection/Queues.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/cache/RemovalListeners.java
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jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/util/collection/EmptyContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/cache/CacheLoader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29-0-android-sources-
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jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/eventbus/Subscriber.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
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* *
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingTable.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ArrayListMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableMultisetGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
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  jar/com/google/common/graph/MutableGraph.java
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/**
* Holder for web specializations of methods of {code Shorts}. Intended to be empty for regular
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/CartesianList.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Function.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharStreams.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RangeMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/FilteredEntrySetMultimap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/CompactHashSet.java
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jar/com/google/common/collect/SortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SortedMultisets.java

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* /opt/ws_local/PERMITS_SQL/1089224651_1600098009.38/0/j2objc-annotations-1-3-sources-1-jar/com/google/j2objc/annotations/Weak.java
* /opt/ws_local/PERMITS_SQL/1089224651_1600098009.38/0/j2objc-annotations-1-3-sources-1-jar/com/google/j2objc/annotations/AutoreleasePool.java

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1.347 jackson-dataformat-yaml 2.8.11
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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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1.348 dropwizard-jersey 0.9.2

1.349 jackson 2.9.6
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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

1.350 libxfixes 5.0.3 1.el7
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1.351 make 3.82 24.el7

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Version 3, 29 June 2007

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were developed by Martin Porter and Richard Boulton.
The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in analysis/common/src/org/apache/lucene/analysis/en was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
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/* lib/font/fontfile/gunzip.c
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1.365 jctools-core 2.0.1

1.366 tar 1.32-1.el7.0atomix1

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1.368 jul-to-slf4j 1.7.12
1.369 jackson 2.9.8

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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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1.370 iputils 20160308 10.el7

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1.371 httpcomponents-core 4.4.10
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1.372 javassist 3.21.0-GA

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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/bytecode/StackMapTable.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/bytecode/ClassFileWriter.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/SerialVersionUID.java
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  jar/javassist/bytecode/CodeAttribute.java
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  jar/javassist/runtime/Inner.java
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  jar/javassist/compiler/SyntaxException.java
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  jar/javassist/bytecode/TypedBlock.java
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  jar/javassist/bytecode/SyntheticAttribute.java
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  jar/javassist/compiler/CodeGen.java
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  jar/javassist/compiler/SignatureAttribute.java
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  jar/javassist/ClConstructor.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/convert/TransformAfter.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/bytecode/DuplicateMemberException.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/convert/TransformCall.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/tools/reflect/Reflection.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/convert/Transformer.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/Keyword.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/convert/TransformWriteField.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/KeywordTable.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/CallExpr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/convert/TransformAccessArrayField.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/convert/TransformReadField.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/KeywordTable.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/ClassFile.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/Dump.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/ClassNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/ByteStream.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtClassType.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/convert/TransformWriteField.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/runtime/Desc.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtNewWrappedMethod.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/util/proxy/Proxy.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/Variable.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/TypeChecker.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/web/Viewer.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/AccessorMaker.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/Member.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtPrimitiveType.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/TypeChecker.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/scopedpool/ScopedClassPool.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/analysis/MultiType.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/Instanceof.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtNewMethod.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/ByteArrayClassPath.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/Modifier.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/CoderIterator.java

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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/analysis/Type.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/BinExpr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtMember.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/Stmt.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/JvstCodeGen.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CannotCompileException.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/Expr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/ClassPool.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/LongVector.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/FieldDecl.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/MemberResolver.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/ClassMetaobject.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/MemberResolver.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/CtMethod.java
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1.408 attr 2.4.46-13.el7atomix1

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1.428 yum-utils 1.1.31-52.el7

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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include/GL/gl.h:

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include/GL/glxext.h
include/GL/wglxext.h:

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a method in class "org.apache.commons.math3.util.MathArrays") was
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The textbook (containing a proof that the shuffle is uniformly random) is
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1.456 dropwizard-jackson 0.9.2

1.457 cassandra-driver-core 3.0.0

1.458 classmate 1.1.0
1.458.1 Available under license :
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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1.459 pkg-config 0.27.1 4.el7
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1.460 e2fsprogs 1.42.9 16.el7

1.460.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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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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# 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)
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul 'Rusty' Russell 2000

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

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

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Gadi Oxman, August 1995

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Theodore Ts'o
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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:
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 * License for the specific language governing permissions and limitations
 * under the License.
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its { @link ChannelPipeline}. 
* 
* <h3>Sub-types</h3>
* 
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
* 
* <ul>
* <li> [@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li> [@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* 
* </ul>
* 
* Alternatively, the following adapter classes are provided for your convenience:
* 
* <ul>
* <li> [@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li> [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li> [@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* 
* </ul>
* 
* For more information, please refer to the documentation of each subtype.
* 
* 
* <h3>The context object</h3>
* 
* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]s) which is specific to the handler.
* 
* 
* <h3>State management</h3>
* 
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
*     
*     private boolean loggedIn;
* 
*     
*
* { @code @Override}
* public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*     @link Channel ch = e.getChannel();
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*         if (loggedIn) {
*             ch.write(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
*     ...*
* }</pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends @link ChannelInitializer&lt;@link Channel&gt; {
*     @code @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*
* Using [@link AttributeKey]s
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>
* { @code @Sharable}
* public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
*     private final @link AttributeKey&lt;@link Boolean&gt; auth =
*         AttributeKey.valueOf("auth");
* }
```java
    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Optional<Boolean>> attr = ctx.attr(auth);
        Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ch.write(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

### The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation. If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipelines` multiple times without a race condition. If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
This annotation is provided for documentation purpose, just like the JCIP annotations.

Please refer to the ChannelHandler and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Additional resources worth reading

Please refer to the ChannelHandler, and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/cola/permits/1095812350_1601503566.22/0/netty-transport-4-1-13-final-sources-2-jar/io/netty/channel/local/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1095812350_1601503566.22/0/netty-transport-4-1-13-final-sources-2-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1095812350_1601503566.22/0/netty-transport-4-1-13-final-sources-2-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1095812350_1601503566.22/0/netty-transport-4-1-13-final-sources-2-jar/io/netty/channel/SelectStrategyFactory.java
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1.480 jackson-dataformat-yaml 2.8.6

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- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at http://voxeolabs.com.
- Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.
- Additional CertPath testing and validation data from the CertPath testing tool developed by media Transfer AG both located in Darmstadt, Germany.

People

- Tito Pena <Fortunato.Pena@AdNovum.CH> - initial RC5 implementation
- Michael Lee <yfl@mira.net> - initial RC6 implementation, MD2 implementation
- Nuno Santos <nsantos@student.dei.uc.pt> - finding toString bug in certificate object
- Brett Sealey <bretts@mothbay.com> - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).
<li>Victor A. Salaman <salaman@teknos.com> - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
<li>Eran Librach <eraln@valicert.com> - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
<li>Jonathan Knudsen <jonathan#LearningPatterns.com> - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Markus Niedermann <markus.niedermann@softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Mike Benham <moxie@thoughtcrime.org> - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
<li>Soren Hilmer <hilmer@mail.tele.dk> - initial implementation of netscape certificate request classes.</li>
<li>Uwe Guenther <uwe@cscc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
<li>Markus Bradtke <mab@informatik.uni-kiel.de> - fixing of a logic error in the JDKKeyStore class.</li>
<li>Waclaw Sierek <waclaw.sierek@tpg.pl> - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu <lyna.phu@64:init-consulting.de> - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan Köpsell <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/</li>
<li>Carmen Bastiaans <cbastian@microbits.com.au> - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson <tomast@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov <euxx@64:hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
<li>Megan Woods <meganwoods@64:sekurafire.com> - initial implementation of ECIES.</li>
<li>Christian Geuer-Pollmann <geuerp@64:apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M@252;hle <michael@64:mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell <me@64:michaelmansell.com> - fixing the parsing of the empty DER set in the ASN1...
library.</li>
<li>Mike Bean <mbean&#064;lucentradius.com> - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek <e9526225&#064;student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms <jgarms&#064;yahoo.com> - fixing 112/168 key size bug for DESede key generation.</li>
<li>Mike Bremford <mike&#064;big.faceless.org> - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan <ssr002&#064;yahoo.com> - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben <stefestef&#064;skynet.be> - adding Montgomery multiplication to the BigInteger class.</li>
<li>Klaudiusz Ciosk <kciosk&#064;max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.</li>
<li>Thomas Houtekier <Thomas.Houtekier&#064;tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.</li>
<li>Don Hillsberry <dhillsber&#064;dialcorp.com> - S/Mime testing and debugging.</li>
<li>Kazu Furu <kfuru&#064;infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.</li>
<li>Jason Novotny <jdnovotny&#064;lbl.gov> - initial work on the openSSL PEM processing.</li>
<li>Joel Hockey <joel.hockey&#064;qsipayments.com> - initial work on the openSSL PEM processing.</li>
<li>John Steenbruggen <joHNs&#064;geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske <justin&#064;chapweske.com> - ordering patch for Tiger message digest.</li>
<li>John Serock <jserock&#064;hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
<li>Sascha Weinreuter <Sascha.Weinreuter&#064;cit.de> - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehnert <aw5&#064;mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono <lo_iacono&#064;nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach <tsakach&#064;certivo.net> - SMIME v2 compatibility patches.</li>
<li>Marcus Povey <mpovey&#064;brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clau&szlig; <sc2&#064;inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolas Bielza <nicolas.bielza&#064;alligacom.com> - isolating the tagging bug in the ASN.1 library that was
misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes <rick.zeldes@eds.com> - initial code for CMS/SIMIME CompressedData.

Jarek Gawor <gawor@ms.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier <random@rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles <graham.coles@retail-logic.com> - patch to isParityAdjusted in DESKeySpec.

Jouni von Kattchee <j.kattchee@#064;seeburger.de> - patch to SMIMEGenerator for preventing class exceptions with BodyParts containing Multipart objects.

Matteo Artuso <matartuso@#064;libero.it> - picking up the possible overead in ASN1InputStream.

Julian Morrison <julian@extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein <eso@#064;esomail.de> - fix to long conversion in clean room SecureRandom.

Jouni Schwarze <JSchwarze@#064;ulf.de> - Locale fix for the clean room JCE.

Bryan Lovquist <bkl@#064;cps.com.au> - Other provider compatibility fixes for CMS signing.


Michael H&auml;usler <michael.hauesler@#064;ponpon-consulting.de> - missing OID update for SHA1 with RSA Signature.

Johan Seland <johans@#064;netfonds.no> - general toString for BigInteger class.

Johannes Nicolai <johannes.nicolai@#064;novossec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.

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Jan Dvorak <jan.dvorak@#064;mahan.cz> - initial implementation of the light weight Null block cipher.

Joe Cohen <jcohen@#064;forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long <aclong@#064;ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink <hes@#064;6ize.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu <stefanpuiuro@#064;yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang <kaieryang@#064;yahoo.com> - Finding BigInteger loop problem in prime generation.

Jiri Urbanec <jiri.urbanec@#064;logicacmg.com> - patch to fix defect in DERBMPString.equals().

Justin Kolb <jkolb@#064;pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser <ralfhauser@#064;gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.

Michal Dvorak <_M_Dvorak@#064;kb.cz> - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini <Klaus@#064;cpqd.com.br> - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo <Olivier_Refalo@#064;fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola <mariusz.bandola@#064;cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein <brien.oberstein@#064;transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.

Ian Haywood <ian@#064;haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
<li>Jonathan Edwards <s34gull&#064mac.com> - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton <andrew&#064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander <gl&#064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.</li>

<li>Antoon Bosselaers <Antoon.Bosselaers&#064esat.kuleuven.ac.be> - help with RIPEMD320 implementation.</li>

<li>Peter Sylvester <Peter.Sylvester&#064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug <ummmmm&#064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes <fstaes&#064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer <wdittmer&#064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto <laperez&#064banxico.org.mx> - patch to use of BitString in X.500 name.</li>

<li>James Wright <James_Wright&#064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford <jim&#064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler <haeusler&#064ponton-consulting.de> - extra aliases for provider.</li>

<li>Sai Pullabhotla <psai&#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

<li>Joseph Miller <joseph&#064064digiweb.net.nz> - addition of ZeroBytePadding.</li>

<li>Lars <xyz&#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen <jeroen&#064vanvianen.nl> - the Signed and Encrypted mail example.</li>

<li>Jun Sun <JSun&#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petr Dukem <pdukem&#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva <filipe.silva&#064064wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.</li>

<li>Alpesh Parmar <alsp&#064linuxuxmail.org> - patch for class cast problem in PGPPublicKey getSignatures().</li>

<li>Jay Gengelbach <jgengelbach&#064064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>

<li>Doug <doug&#064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.</li>

<li>Matthew Mundy <mmundy1&#064umbc.edu> - infinite loop prevention patch to PKCS52ParametersGenerator.</li>

<li>Tom Cargill <cargill&#064profcon.com> - spelling patch in provider.</li>

<li>Breitenstrom Christian <C.Breitenstrom&#064064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>

<li>Zanotti Mirko <zanotti&#064cad.it> - patch to ordered equality test for X509Name.</li>

<li>Nicola Scendoni <nscondoni&#064babelps.it> - patch to add sorting to CertPath validation.</li>

<li>Ville Skytt&auml;uml; <ville.skytt&#064ksi.fi> - patch to CRLLDistPoint for crLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>

<li>Bruce Gordon <bruce.gordon&#064064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>

<li>Miles Whiteley <Miles.Whiteley&#064064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner@evintia.com> - initial TSP implementation.
Carlos Lozano <carlos@evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgadillo <javi@javiodowarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala@cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.
Rolf Schllinger<rolf@064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin@yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Francck Leroy <Francck.Leroy@keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk@064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
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Steve Mitchell <mitchell@064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.
Julien Pasquier <juilienpasquier@064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso@064libero.it> - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson@064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
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Pavel Vassiliev <paulvbas@064gmail.com> - Initial GOST28147Mac implementation.
Tom Pesman <tom@064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch@064maxence.de> - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fiss@064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5@064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz@064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee@064Crossroads.com> - implementation assistance with streaming CMS classes.<li>
Joel Rees <rees@064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.<li>
Francesc Sau <francesc.sau@064partners.netfocus.es> - micro fix for tsp Accuracy class.<li>
Larry Bugbee <bugbee@064mac.com> - initial ECNR implementation.<li>
Remi Blancher <Remi.Blancher@064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.<li>
Brian O'Rourke <brianorourke@064gmail.com> - patch for signature creation time override in OpenPGP.<li>
Andreas Schwier <andreas.schwier@064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider. fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.<li>
David Josse <david.josse@064transacttools.net> - Patch for trailer function in version 2 signature packets.<li>
Kishimoto Kazuhiiko <kazu-k@064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.<li>
Lawrence Tan <lwrnctan@064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.<li>
Carlos Valiente <superdupont@064gmail.com> - Addition of CRL writing to the PEMWriter class.<li>
Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.<li>
Olaf Keller, <olaf.keller.bc@064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.<li>
J&ouml;rg Eichhorn <eichhorn@064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.<li>
Karsten Ohme <widerstand@064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.<li>
Carlos Lozano Ruiz <carlos@064tradise.com> - patch for <ctrl>+<m> only handling in CRLFOutputStream.<li>
John Alfred Prufrock <j.a.prufrock@064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.<li>
Stefan Neusatz Guilhen <sneusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.<li>
Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.<li>
Georg Lippold <georg.lippold@064gmx.de> - initial implementation of NaccacheStern cipher.<li>
Chris Viles <chris_viles@064yahoo.com> - fix to SignatureSubpacket critical bit setting.<li>
Pasi Eronen <Pasi.Eronen@064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large...
OID components.</li>
<li>Lijun Liao <lijun.liao&#064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.</li>
<li>Maria Ivanova <maria.ivanova&#064gmail.com> - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin Häubling <arminha&#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder <mschilder&#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourec <xavier&#064britannysoftware.com> - general code clean ups.</li>
<li>Erik Tews <e_tews&#064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon <reikomusha&#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis <info&#064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <rjoaquim&#064#64cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <DStacey&#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <list&#064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRC and Sequence evaluation.</li>
<li>Julius Davies <juliusdavies&#064gmail.com> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias <g&#064#64rtner.de> - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga Käuflthler <olga.caethler&#064#64hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo <germano.rizzo&#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>Nuria Marí­a <numaa&#064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller <js&#064#64zi.de> - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet <mike&#064#64samblanet.com> - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <mstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson <mark&#064#64nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <eugene_gff&#064ukr.net> - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier <julienpasquier&#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <pknopp&#064#64ntg.de> - fix for named curve recognition in ECOST key generation.</li>
<li>Jakub Gwozdz <gwozdziu&#064#64rpg.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malikowski <bmalikow&#064#64tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko <andreya.pavlenko&#064gmail.com> - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns <mstjohns@064comcast.net> - updates to KeyPurposeId</li>
<li>J Ross Nicoll <jrn@064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <mavricknz@064yahoo.com> - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEFs.</li>
<li>Roelof Naude <roelof.naude@064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <peak@064signatureen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <sale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga <ilarra@064sa1sec.com> fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson <tobbe79@064mail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick <bouncycastle_pfitz@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri <charakiri_23@064yahoo.com> datahandler patch for attached parts in SMIME signatures.</li>
<li>PedroHenriques <pmanhenriques@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer <job@064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal.</li>
<li>Richard Farr <rfarr.se@064gmail.com> initial SRP-6a implementation.</li>
<li>Thomas Castiglione <castiglione@064au.ibm.com> patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani <ceromani@064sogeii.it> patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren <r737lundgren@064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec <mormegil@064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener <antener_a@064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat <hrrawat@064yahoo.com> fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann <lindemann@064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov <alexart.home@064gmail.com> name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons <mlyons@064layer7tech.com> work arounds for EC JDK bug 6738532 and JSE EC naming conventions.</li>
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom@064attack.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau@064t-online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor@064cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilaringen <markus@064primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <daronis@064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <boab.mcgoo@064btinternet.com> path to support different content and mgf digest in PSS signing.

Ivo Matheis <i.matheis@064seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche@064gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Maß <alfilmalf@064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa@064insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo@064unicaspa.it> initial work on CMSTimeStampedDataParser.

Arnis Tartu <arnis@064tu.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski <J.Sikocinski@064gdzie.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudoilejev <jhudoilejev@064gmail.com> JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten@064hp-consulting.com> fine tuning of code for DHPARAMETERS validation.

Shawn Willden <swillden@064google.com> additional functionality to PGPKeyRing.

Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.

Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.

Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.

Bernd <rbernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@064BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@064ngttech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <p.petrov@064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.f.nwr@064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson@064quest.com> a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiaojxi@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Elriseth <Elriseth@064WPECGtLytv8R16Y7Vzi2Lvd2UE/VW99v3YV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root <kenny@064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes <maarten.bodewes@064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay <pilf_b@064yahoo.com> Initial implementation of J-PAKE.

Brian Carstrom <bdc@064carstrom.com> compatibility patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&acuten Borell <samuel@064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner <sergiolerner@064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington <Tim.Whittington@064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skee, XSalsa20, ChaCha, rounded Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CMC, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCharry, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad@064primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin@064xrm.ru> patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d@064gmail.com> initial cut of DVCS classes.

Damian Kolasa <fatfredyy@064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes@064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev@064daniel-hirsch.de> patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome@064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio@064methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.

Babak Najafi <bnajafi@064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&uuml;ller @eric.mueller@064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts@064gmail.com> fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov@064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86@064gmail.com> contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc@064gmail.com> patch to reconstruction of ECOST keys from PrivateKeyInfo objects in provider classes.
<li>Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.</li>
<li>Roberto Tyley <rty@wdick.de> further work on completing gradle build.</li>
<li>Waldermar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.</li>
<li>Sid Steward <sid.steward&#064064pdflabs.com> code improvements to ASNIBoolean.</li>
<li>Alex Klyubin <klyubin&#064064google.com> AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett <gsoc.student&#064064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller <kieran.miller&#064064gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli <ehli&#064064arago.de> Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt <Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests</li>
<li>Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts <aarts&#064064riscure.com> updated to KDF generator to follow NIST SP 800-108.</li>
<li>Frantziskus Kiefer <https://github.com/frantziskuskiefer> initial implementation of Cramer-Shoup.</li>
<li>KB Sriram <mail_kb&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Mark Schulze <marko&amp;#064nightlabs.de> Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer <https://github.com/martinschaefer> contributed a code-cleanup patch.</li>
<li>Lijun Liao <ljun.liao&#064064gmail.com> addition of getSignatureAlgorithmID to BasicOCSPResp.</li>
<li>dstutz <https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich <tobias.wich&#064064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens <hauke&#064064hauke-m.de> TLS patch to add ECDHE/ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman <dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza <ltj.kapitza&#064064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund <johan&#064064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre <https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot <thomas.belot+BC&#064064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce <https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bj&amp;ouml;rn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&amp;ouml;rmann <https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
Michael <MSKnete@#064web.de> initial fix for bitStrength issue for OpenPGP EC keys.

Tobias Wagner <tobias.wagner@#064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BIA-536].

Sergio Giro <sgiro@#064google.com> Fixed adding of additional stores from CRL distribution point [#BIA-537]. Fixed missing null check for CRL certificate issuer [#BIA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette <https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot <https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen <j.w.janssen@bouncycastle@#064xtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.

Sebastian Oerding <sebastian.oerding@robotron.de> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.

BSchuette <https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

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Sebastian Oerding <sebastian.oerding@robotron.de> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.

Kai Kramer <kai.kramer@#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles <benoit.charles@#064opentrust.com> Fix for IES data length check on decryption.

Niko <nfink95@#064gmail.com> Fix to cast issue in getOutputSize() for ECIES.


Matthias Edelhoff <Matthias.Edelhoff@#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat <lukasz.deputat@#064gmail.com> Fixed bugs in TlsUtils read methods [#BIA-592].

Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.

Andr&ecute; Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.


Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.

William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BIA-620].

jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle <jaegele@#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> Defect analysis and additional test cases for the providers.

Gorka Irazoqui <girazoki@#064wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

Joerg Senekowitsch <joerg.senekowitsch@#064veridos.com> Patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexander Krivoshtta <wipe@#064ya.ru> N4 calculation fix to GOBF mode.

Artem Storozhuk <storozhuk72@#064gmail.com> N4 calculation fix to GOBF mode.

Na Yu <na.yu@#064samsung.com> Constructor patches to CMC PKIData.

Evangelos Karatsiolis <ekaratsiolis@#064mgte.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.

1.490 jaxb-api 2.3.0

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1.491 plexus-archiver 2.2

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1.492 jackson-annotations 2.9.0

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1.496 libxshmfence 1.2 1.el7
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1.497 bcpkix-jdk15on 1.58

1.498 pygpgme 0.3 9.el7

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1597451582365
Build-Jdk: 11.0.7
Built-By: acozzette
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.13.0
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.13.0";uses="com.google.protobuf"
Import-Package: com.google.common.base;version="[29.0,30)",com.google.common.io;version="[29.0,30)",com.google.common.math;version="[29.0,30)",com.google.common.primitives;version="[29.0,30)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.13,4)"
Require-Capability: osgi.ee;filter="(&amp;osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092309968_1600708800.32/0/protobuf-java-util-3-13-0-jar/META-INF/MANIFEST.MF

1.500 protobuf-java 3.13.0
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/google/protobuf/type.proto
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/DynamicMessage.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/CodedInputStreamReader.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/LazyFieldLite.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/AllocatedBuffer.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/AbstractMessage.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/DoubleArrayList.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/NewInstanceSchemaFull.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/MessageLiteToString.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/FieldType.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/RpcCallback.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/google/protobuf/duration.proto
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/ProtoSyntax.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/RpcUtil.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/ProtocolStringList.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/AbstractParser.java
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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before
<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>> is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field
when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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Woodstox is an XML-parser that allows parsing of XML documents in so-called
pull mode (aka "pull parsing").
It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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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
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It is currently developed by a community of developers, as well as supported
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Stax2 API is an extension to basic Stax 1.0 API that adds significant
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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or
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cocab-ko-dic-2.0.3-20170922

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo
# 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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Version 3, 29 June 2007

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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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### Jdom-contrib version 1.1.3

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two files are LineNumberElement.java and LineNumberSAXHandler.java.

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NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

Janino - An embedded Java[TM] compiler

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1.505 zlib 1.2.8

1.505.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly         Mark Adler
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*/
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The End

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 version 1.0.6 of 6 September 2010

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#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "; my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => [ ['-v'] ];
    my ($year) = $output =~ /\bcopyright \d{4,}..\b/; or die "Copyright statement not found in perl -v output '$output'";

$year;
}

1.507 springfox-spring-web 2.8.0

1.508 log4j-api 2.11.1
1.508.1 Available under license:

Apache Log4j 1.x Compatibility API
Copyright 1999-2018 The Apache Software Foundation

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1.509 spring-expression 5.0.8.RELEASE

1.510 snake-yaml 1.19

1.510.1 Available under license:

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1.511 dropwizard-servlets 0.9.2

1.512 diffutils 3.3 5.el7

1.512.1 Available under license:

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/* diff - compare files line by line */


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#define GDdiff_MAIN
#define "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <profilename.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS
   proper_name ("Paul Eggert"),
   proper_name ("Mike Haertel"),
   proper_name ("David Hayes"),
   proper_name ("Richard Stallman"),
   proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
   char *regexps;/* chars representing disjunction of the regexps */
   char *len;/* chars used in 'regexps' */
   char *size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
   bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
   struct re_pattern_buffer *buf;
static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
   recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum
{
  BINARY_OPTION = CHAR_MAX + 1,
  FROM_FILE_OPTION,
HELP_OPTION,
HORIZON_LINES_OPTION,
IGNORE_FILE_NAME_CASE_OPTION,
INHIBIT_HUNK_MERGE_OPTION,
LEFT_COLUMN_OPTION,
LINE_FORMAT_OPTION,
NO_DEREFERENCE_OPTION,
NO_IGNORE_FILE_NAME_CASE_OPTION,
NORMAL_OPTION,
SDIFF_MERGE_ASSIST_OPTION,
STRIP_TRAILING_CR_OPTION,
SUPPRESS_BLANK_EMPTY_OPTION,
SUPPRESS_COMMON_LINES_OPTION,
TABSIZE_OPTION,
TO_FILE_OPTION,

/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

/* These options must be in sequence. */
UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
};
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};
/* Return a string containing the command options with which diff was invoked.
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.
If there were no options, the result is an empty string.
Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
the length of that vector. */
static char *
option_list (char **optionvec, int count)
{
int i;
size_t size = 1;
char *result;
char *p;
for (i = 0; i < count; i++)
size += 1 + shell_quote_length (optionvec[i]);
p = result = xmalloc (size);
for (i = 0; i < count; i++)
{
*p++ = ' ';
p = shell_quote_copy (p, optionvec[i]);
}
*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */
static int
exclude_options (void)
{
return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

Open Source Used In Network Insights Resources (version 5.0.1) 5.0.1 4180


int main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, & argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
        case 0:
            break;
        case '0':
            case '1':
            case '2':
            case '3':
            case '4':
            case '5':
            case '6':
            case '7':
            case '8':

case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
    case 'U':
    {
        if (optarg)
            {
            numval = strtoumax (optarg, &numend, 10);
            if (*numend)
                try_help ("invalid context length ""%s", optarg);
            if (LIN_MAX < numval)
                numval = LIN_MAX;
            }
        else
            numval = 3;
        }
        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;

case 'c':
specify_style (OUTPUT_CONTEXT);
if (context < 3)
    context = 3;
break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%%%=%c ifndef %s\\n%%<#endif /* ! %s */
%%%=ifdef %s /* %s */
%%%=ifndef %s
%%%=if %s */
%%%=else */
%%%=
";
        char *b = xmalloc (sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%s" */
            - 8 /* 5*"%" + 3*"%c" */);
        sprintf (b, C_ifdef_group_formats,
            optarg, optarg,
            optarg, optarg,
            optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value (&group_format[i], b, "-D");
        b += strlen (b) + 1;
    }
    break;

case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;
case 'h':
   /* Split the files into chunks for faster processing.
      Usually does not change the result.

      This currently has no effect. */
   break;

case 'H':
   speed_large_files = true;
   break;

case 'i':
   ignore_case = true;
   break;

case 'I':
   add_regexp(&ignore_regexp_list, optarg);
   break;

case 'l':
   if (!pr_program[0])
      try_help("pagination not supported on this host", NULL);
   paginate = true;
   #ifdef SIGCHLD
   /* Pagination requires forking and waiting, and
      System V fork+wait does not work if SIGCHLD is ignored. */
   signal(SIGCHLD, SIG_DFL);
   #endif
   break;

case 'L':
   if (!file_label[0])
      file_label[0] = optarg;
   else if (!file_label[1])
      file_label[1] = optarg;
   else
      fatal("too many file label options");
   break;

case 'n':
   specify_style(OUTPUT_RCS);
   break;

case 'N':
   new_file = true;
   break;

case 'p':
show_c_function = true;
add_regexp (&function_regexp_list, "^\[[:alpha:]\$[.]\]" );
break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ( );
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;
case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
    exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%%s'", optarg);
    if (width != numval)
        { 
        if (width)
            fatal ("conflicting width options");
            width = numval;
        }
    break;

case BINARY_OPTION:
    #if O_BINARY
        binary = true;
        if (! isatty (STDOUT_FILENO))
            set_binary_mode (STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ()
    check_stdout ()
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize ‘\%s’", optarg);
    if (tabsize != numval)
        {
            if (tabsize)
                fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
    }
    prev = c;
    }

if (output_style == OUTPUT_UNSPECIFIED)
    {
        if (show_c_function)
            {
                specify_style (OUTPUT_CONTEXT);
                if (ocontext < 0)
                    context = 3;
else
    specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard Locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \  
   || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
#else
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
#endif

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
    || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
    || (ocontext < context && ! explicit_context)))
context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

/* Maximize first the half line width, and then the gutter width,  
according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces,
      a half line plus a gutter is an integral number of tabs,
      so that tabs in the right column line up. */

intmax_t t = expand-tabs ? 1 : tabsize;
intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
sdiff_column2_offset = sdiff_half_width ? off : w;
/* Make the horizon at least as large as the context, so that shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    if (!line_format[i])
        line_format[i] = "%\n";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD], group_format[NEW], "\n");
}

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ?
        (!*group_format[UNCHANGED] || (STREQ (group_format[UNCHANGED], "%=") && !*line_format[UNCHANGED])) : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
    (brief & binary
     & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr |
     (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal ("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
        /* Print any messages that were saved up for last. */
        print_message_queue ();

        check_stdout ();
        exit (exit_status);
        return exit_status;
    }

    /* Append to REGLIST the regexp PATTERN. */

    static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
        /* Print any messages that were saved up for last. */
        print_message_queue ();

        check_stdout ();
        exit (exit_status);
        return exit_status;
    }
char *regexps = reglist->regexps;
size_t len = reglist->len;
bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
size_t size = reglist->size;

if (size <= newlen)
{
    if (!size)
        size = 1;
    do size *= 2;
    while (size <= newlen);

    reglist->size = size;
    reglist->regexps = regexps = xrealloc (regexps, size);
}
if (multiple_regexps)
{
    regexps[len++] = '\';
    regexps[len++] = '|';
    memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps. */
static void
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
    /* At least one regexp was specified. Allocate a fastmap for it. */
    reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    if (reglist->multiple_regexps)
    {
        /* Compile the disjunction of the regexps.
         (If just one regexp was specified, it is already compiled.) */
        char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                            reglist->buf);
        if (m)
            error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
}
static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}
static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name (_("standard output"));
}
static char const * const option_help_msgid[] = {
N_(" --normal
output a normal diff (the default)"),
N_("-q, --brief
report only when files differ"),
N_("-s, --report-identical-files report when two files are the same"),
N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed
output an ed script"),
N_("-n, --rcs
output an RCS format diff"),
N_("-y, --side-by-side
output in two columns"),
N_("-W, --width=NUM
output at most NUM (default 130) print columns"),
N_(" --left-column
output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"",
N_("-p, --show-c-function
show which C function each change is in"),
N_("-F, --show-function-line=RE show the most recent line matching RE"),
N_(" --label LABEL
use LABEL instead of file name\n"
"
(can be repeated)"),
"",
N_("-t, --expand-tabs
expand tabs to spaces in output"),
N_("-T, --initial-tab
make tabs line up by prepending a tab"),
N_(" --tabsize=NUM
tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
N_("-l, --paginate
pass output through 'pr' to paginate it"),
"",
N_("-r, --recursive
recursively compare any subdirectories found"),
N_(" --no-dereference
don't follow symbolic links"),
N_("-N, --new-file
treat absent files as empty"),
N_(" --unidirectional-new-file treat absent first files as empty"),

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N_("    --ignore-file-name-case     ignore case when comparing file names"),
N_("    --no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("-X, --exclude-from=FILE exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE start with FILE when comparing directories"),
N_("    --from-file=FILE1 compare FILE1 to all operands:\n
" FILE1 can be a directory"),
N_("    --to-file=FILE2 compare all operands to FILE2:\n
" FILE2 can be a directory"),

N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),

N_("-a, --text treat all files as text"),
N_("    --strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_("    --binary read and write data in binary mode"),
#endif

N_("-D, --ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_("    --GTYPE-group-format=GFMT format GTYPE input groups with GFMT"),
N_("    --line-format=LFMT format all input lines with LFMT"),
N_("    --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output:\n
" of diff, generalizing -D/--ifdef."),
N_("    --LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_("    GFMT (only) may contain:\n
%< lines from FILE1\n%
%> lines from FILE2\n%
=% lines common to FILE1 and FILE2\n%
%-][WIDTH][.[PREC]][(doxX)] \n LETTER printf-style spec for LETTER\n
LETTERS are as follows for new group, lower case for old group:\n
F first line number\nL last line number\nN number of lines = L-F+1\nE F-1\nM L+1\n%
%(A=B?T:E) if A equals B then T else E") ,
N_("    LFMT (only) may contain:\n
%L contents of line\n%
%I contents of line, excluding any trailing newline\n%
%-][WIDTH][.[PREC]][(doxX)]n printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n
"
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---

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s \[OPTION]... FILES\n"), program_name);
    printf (_("Compare FILES line by line\.
"));

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ("n");
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, 'n'))
            {
                int msglen = nl + 1 - msg;
                printf (_(" %s\n", msglen, msg);
                msg = nl + 1;
            }

            printf (_(" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
        }
    }
}
}
emit_bug_reporting_address ();
}
/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}
/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}

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/* Compare two files (or dirs) with parent comparison PARENT and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int compare_files (struct comparison const *parent, char const *name0, char const *name1) {
    struct comparison cmp;
    #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (! ((name0 && name1) || (unidirectional_new_file && name1) || new_file)) {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;

    /* cmp.file[f].desc markers */
    #define NONEXISTENT (-1) /* nonexistent file */
    #define UNOPENED (-2) /* unopened file (e.g. directory) */
    #define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
            set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
            cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))

                }
/* POSIX 1003.1-2001 requires current time for stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}
else if ((f = 0; f < 2; f++)
    if ((no_dereference_symlinks
        ? lstat (cmp.file[f].name, &cmp.file[f].stat)
        : stat (cmp.file[f].name, &cmp.file[f].stat))
        != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
/* Mark files as nonexistent as needed for -N and -P, if they are inaccessible empty regular files (the kind of files that 'patch' creates to indicate nonexistent backups), or if they are top-level files that do not exist but their counterparts do exist. */
for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == UNOPENED
        ? (S_ISREG (cmp.file[f].stat.st_mode)
            && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
            && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
                || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
                && ! parent
                && (cmp.file[1 - f].desc == UNOPENED
                    || cmp.file[1 - f].desc == STDIN_FILENO)))
cmp.file[f].desc = NONEXISTENT;
for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        { memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
            cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }
for (f = 0; f < 2; f++)
int e = ERRNO_DECODE (cmp.file[f].desc);
if (0 <= e)
{
    errno = e;
perror_with_name (cmp.file[f].name);
    status = EXIT_TROUBLE;
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
        = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
fatal ("cannot compare '-' to a directory");

    if (!no_dereference_symlinks)
        lstat (filename, &cmp.file[dir_arg].stat)
            : stat (filename, &cmp.file[dir_arg].stat))
            != 0)
        {
perror_with_name (filename);
        status = EXIT_TROUBLE;
    }

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
        && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
        = (cmp.file[0].desc != NONEXISTENT
            && cmp.file[1].desc != NONEXISTENT
            && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
&;&; same_file_attributes (&cmp.file[0].stat,  
&cmp.file[1].stat))  
&;&; no_diff_means_no_output)  
{  
/* The two named files are actually the same physical file.  
We know they are identical without actually reading them. */  
}  
else if (DIR_P (0) & DIR_P (1))  
{  
if (output_style == OUTPUT_IFDEF)  
fatal ("-D option not supported with directories");  
/* If both are directories, compare the files in them. */  
if (parent &;&; !recursive)  
{  
/* But don't compare dir contents one level down  
unless -r was specified.  
See POSIX 1003.1-2001 for this format. */  
message ("Common subdirectories: %s and %s\n",  
cmp.file[0].name, cmp.file[1].name);  
}  
else  
status = diff_dirs (&cmp, compare_files);  
}  
else if ((DIR_P (0) | DIR_P (1))  
|| (parent  
&;&; !((S_ISREG (cmp.file[0].stat.st_mode)  
|| S_ISLNK (cmp.file[0].stat.st_mode))  
&;&; (S_ISREG (cmp.file[1].stat.st_mode)  
|| S_ISLNK (cmp.file[1].stat.st_mode))))))  
{  
if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)  
{  
/* We have a subdirectory that exists only in one directory. */  
if ((DIR_P (0) | DIR_P (1))  
&;&; recursive  
&;&; (new_file  
|| (unidirectional_new_file  
&;&; cmp.file[0].desc == NONEXISTENT))))  
status = diff_dirs (&cmp, compare_files);  
else  
{  
char const *dir;  
/* PARENT must be non-NULL here. */  
assert (parent);
dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

/* See POSIX 1003.1-2001 for this format. */
message("Only in %s: %s\n", dir, name0);

status = EXIT_FAILURE;
}
}
else
/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5("File %s is a %s while file %s is a %s\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
file_type(&cmp.file[0].stat), 
file_type(&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (S_ISLNK(cmp.file[0].stat.st_mode) || S_ISLNK(cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert(no_dereference_symlinks);

if (S_ISLNK(cmp.file[0].stat.st_mode) && S_ISLNK(cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink(cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name(cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
}
if (status == EXIT_SUCCESS)
{
    if ( ! STREQ(link_value[0], link_value[1]))
message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
/* This is a difference. */
status = EXIT_FAILURE;
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
else
{
    /* We have two files that are not to be compared, because
    one of them is a symbolic link and the other one is not. */
    message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name,
             file_type (&cmp.file[0].stat),
             file_type (&cmp.file[1].stat));
    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
    && S_ISREG (cmp.file[1].stat.st_mode)
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
    message ("Files %s and %s differ\n", file_label[0] ? file_label[0] : cmp.file[0].name,
    status = EXIT_FAILURE;
} else
{
    /* Both exist and neither is a directory. */
    /* Open the files and record their descriptors. */
    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
        if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
            perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
if (cmp.file[1].desc == UNOPENED)
{
    if (same_files)
        cmp.file[1].desc = cmp.file[0].desc;
    else if (cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}

/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
&& close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}

/* Now the comparison has been done, if no error prevented it, 
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
        message ("Files %s and %s are identical\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
}
else
{
    /* Flush stdout so that the user sees differences immediately. 
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
        pfatal_with_name (_("standard output"));
free (free0);
free (free1);

return status;
}

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Version 3, 29 June 2007

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1.516 gdbm 1.10-8.el7

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

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

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

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
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1.526 copy-jdk-configs 3.3-10.el7_5

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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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 * Rob Earhart
 * Rob Siemborski
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.555 libjpeg 9d

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README for release 6b of 27-Mar-1998
==========================================

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and have a chance to participate in technical discussions, etc.

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

==========================================
This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
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 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
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

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

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


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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS
=================

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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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 PBMPPLUS 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 PBMPPLUS/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.

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

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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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1.557 jackson-annotations 2.11.0

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1.558 json-cpp 0.11-4.el7_0.x86_64

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1.559 libgpg-error 1.12

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1.563 javax-inject 2.4.0 b31

1.564 compress 1.2
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1.571 jackson-module-jaxb-annotations 2.6.3

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1.575 expat 2.1.0 11.el7

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

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

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If
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sections when you distribute them as separate works. But when you
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
these notices.

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

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

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

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

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

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

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

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

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

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

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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

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1.580 perl-time-local 1.2300 2.el7

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1.581 log4j-over-slf4j 1.7.12

1.582 gorilla 1.7.0

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1.583 jetty-security 9.2.13.v20150730

1.584 nss 3.44.0-4.el7_7

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1.588 libxcb 1.13 1.el7

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1.598 nginx 1.16.1-1.el7_7.0atomix1

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1.599 jackson-datatype-joda 2.6.3

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1.600 error_prone_annotations 2.3.4

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java

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  jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
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  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
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* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/ProtocolDetectionResult.java
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  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
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  jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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/** * Enumeration of supported Base64 dialects. */

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* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/DecoderResultProvider.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
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  jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
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* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

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* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-jar/io/netty/handler/codec/base64/Base64Decoder.java

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Found in path(s):
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java

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  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 */

/*
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 */

/*
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 */

/*
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 */

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
Because we can get the length of the content by calling

`ByteBuf#readableBytes()` function, you might want to strip the length

field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we

specified `<tt>2</tt>`, that is same with the length of the length field, to

strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
```

```
BEFORE DECODE (14 bytes)   AFTER DECODE (12 bytes)
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
```

In most cases, the length field represents the length of the message body

only, as shown in the previous examples. However, in some protocols, the

length field represents the length of the whole message, including the

message header. In such a case, we specify a non-zero

`lengthAdjustment` for compensation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
```

```
BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
| Length | Actual Content |----->| Actual Content |
| 0x000E | "HELLO, WORLD" |      | "HELLO, WORLD" |
```
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>b.lengthAdjustment</b>/\</tt> = <tt>1</tt>/\ (= the length of HDR2)
* <b>b.initialBytesToStrip</b>/\ = <tt>3</tt>/\ (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +---------+--------+------------+                      +---------+------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------+--------+------------+                      +---------+------------+
* </pre>
* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>b.lengthAdjustment</b>/\ = <tt>-3</tt>/\ (= the length of HDR1 + LEN, negative)
* <b>b.initialBytesToStrip</b>/\ = <tt>3</tt>/\
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +---------+--------+------------+                      +---------+------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------+--------+------------+                      +---------+------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1095811275_1601503561.07/0/netty-codec-4-1-13-final-sources-1-
  jar/io/netty/handler/codec/Headers.java

1.602 simpleclient-httpserver 0.3.0

1.603 ttmkfdir 3.0.9 42.el7

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1.609 curl 7.69.1-1.el7_7.0atomix1

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

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLbs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

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## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## BoringSSL

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(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## BearSSL

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

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

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

---
(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

---

### 1.610 atk 2.28.1 1.el7

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Version 2, June 1991

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

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

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1.611 perl-file-path 2.09 2.el7
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.618 jackson-databind 2.9.6
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1.619 perl-http-tiny 0.033-3.el7

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1.621 Ishw B.02.18 13.el7

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

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

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

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file
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linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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