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1.2 file 5.34

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

## Versioned libraries rules

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

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

## FreeBSD-specific setup

### 1.3 mini-xml 2.6

#### 1.3.1 Available under license:

Mini-XML License  
October 18, 2005

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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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1.4 jackson 2.9.8
1.4.1 Available under license:

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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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1.5 json-c 0.13.1

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1.6 gnutls 3.6.4

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1.7 libjpeg 6b
1.7.1 Notifications :
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1.7.2 Available under license :
The Independent JPEG Group's JPEG software
==========================================

README for release 6b of 27-Mar-1998
====================================

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

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

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

We are required to state that

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

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

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

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

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
send usenet/news.answers/jpeg-faq/part2

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
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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.

1.8 cffi 1.11.5
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1.9 bridgeutils 1.6

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### 1.14 libtomcrypt 1.17

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#  * SHA-512
#  * Implementation derived from LibTomCrypt (Tom St Denis)
#  *
#  * LibTomCrypt is a library that provides various cryptographic
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#  *
#  * The library is free for all purposes without any express
#  * guarantee it works.
#  *
#  * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#  */
```

### 1.15 pixman 0.34.0

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## 1.16 multipart-parser-c NA

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```c
/* Based on node-formidable by Felix Geisendörfer
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   */
```

Found in path(s):
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

## 1.17 jackson-databind 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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## 1.18 heimdal 1.0.1

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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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
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running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

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

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

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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
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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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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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/* setjmp is implemented in setjmp.S */

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1.28 iptables 1.6.2

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1.29 zlib 1.2.11

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1.30 ply 3.11

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

import ply.lex as lex
import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

import lex
import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============

PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

    http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGE file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.
tokens = ( 'NAME','NUMBER', 'PLUS','MINUS','TIMES','DIVIDE','EQUALS', 'LPAREN','RPAREN', )

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*' t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r'\)'
t_NAME    = r'[a-zA-Z_]\[a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'.
    t.value = int(t.value)
    return t

# Ignored characters

def t_newline(t):
    r'\n+'.
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer

import ply.lex as lex

lex.lex()

# Precedence rules for the arithmetic operators
precedence = ( 'left','PLUS','MINUS',)
    (left,'TIMES','DIVIDE'),
    (right,'UMINUS'),
# dictionary of names (for storing variables)
names = {}

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
                   | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \"%s\" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at \"%s\" % p.value)

import ply.yacc as yacc
yacc.yacc()
while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
======================

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.31 coreutils 8.30
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.

* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArraySerializerFactory.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleListSerializerFactory.java

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  jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
  jar/org/apache/axis/encoding/ser/SimpleListDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
  jar/org/apache/axis/encoding/MixedContentType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
  jar/org/apache/axis/encoding/ser/SimpleListDeserializerFactory.java
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jar/javax/xml/rpc/holders/BigIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/FactoryFinder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/UndefinedType.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/uuid/SimpleUUIDGen.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaImplWriter.java
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jar/org/apache/axis/wsdll/symbolTable/BaseTypeMapping.java
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jar/org/apache/axis/encoding/ser/Base64SerializerFactory.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/mail/MailSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NMTokens.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRMIProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/monitor/SOAPMonitorService.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/encoding/UTF8Encoder.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/HTTPTransport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaFaultWriter.java
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* /opt/cola/permits/1122085880_161198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/ServiceAdmin.java
* /opt/cola/permits/1122085880_161198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministratorMBean.java
* /opt/cola/permits/1122085880_161198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/Registrar.java
* /opt/cola/permits/1122085880_161198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AutoRegisterServlet.java
* /opt/cola/permits/1122085880_161198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministrator.java
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1.41 zlib 1.2.8

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1.42 openjdk 1.8.0u252
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2006-Jan-27

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include/GL/wglxext.h :

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Julian Seward, Cambridge, UK.
jseward@acm.org
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    # Contributions to the urllib3 project

    ## Creator & Maintainer

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## Contributors

In chronological order:

  * HTTPS patch (which inspired HTTPSConnectionPool)

  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall [http://github.com/georgemarshall](http://github.com/georgemarshall)
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes [http://rhodesmill.org/brandon](http://rhodesmill.org/brandon)
  * Design review, bugfixes, test coverage.

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  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module
* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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References
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* AOL
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD
1.54 kerberos 1.16.1

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lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g-utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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

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1.57 perl 5.24.4
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList:mailto:module-build@perl.org
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version: 3
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

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

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The End
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the `perl -v` output match each other.

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
# The copyright message is the first paragraph:
local $/ = '';
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message $copyright_msg";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output $output";

    $year;
}

1.58 ndg-httpsclient 0.5.1-4.ph4

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1.59 zopfli 1.0.1

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1.71 xinetd 2.3.15

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5b6.
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

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

If such an object file uses only numerical parameters, data
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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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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

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

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

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

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

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

## Bind internal references

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

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

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

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1.84 vixie-cron 1.5.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

^L

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

To apply these terms, attach the following notices to the library.
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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries 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: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

---mike

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

-- Nathan

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

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

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what
it was
released under. This wasn't actually a license change, just a
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unlike the old license, GPL-2 prevents people from using cracklib
unless their applications are also GPL-2 which imo is just wrong. it isn't the
place of a library to dictate to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.

—mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

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

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

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

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

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

-mike

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

-a

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

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

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
    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 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
> 
> The license for my code in the Cracklib distribution is henceforth GPL.
> 
> Happy now? :-)
> 
> -a

1.90 procs 3.3.15

1.90.1 Available under license:

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Version 2, June 1991

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1.91 sysv-init 2.88

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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1.92 cavium-octeon 5.1.0

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Version 3, 29 June 2007

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The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete—if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryssinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhan, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Huflhammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnznar, Tomislav
Marchal, Frederic
Margievius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.97 restlet 2.4.3
1.97.1 Available under license:

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 */
/**
 * Constructor.
/**
 * @param server
 * @param exchange
 * @param confidential
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpExchangeCall.java
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Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Component.xsd
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 */
/**
 * Authorizer allowing only confidential calls. Confidential calls typically
 * come through HTTPS server connectors.
 *
 * @author Jerome Louvel
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/ConfidentialAuthorizer.java
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 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/DispositionReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ExpectationWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/DateUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/SystemUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/resource/Put.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/Entity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/io/UnclosableInputStream.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/data/Digest.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/security/RoleMapping.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/util/WrapperRestlet.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/io/SelectionChannel.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/header/ChallengeWriter.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/security/Verifier.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/resource/ServerResource.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/util/Series.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/data/Metadata.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/util/BeanInfoUtils.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/engine/io/RangeInputStream.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/service/StatusService.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/data/Warning.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/representation/Variant.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/resource/ServerResource.java
* /opt/cola/permits/1122075426_1629910343.42/org/restlet-2-4-3-sources-jar/org/restlet/util/ByteReadingListener.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/WarningReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/Encoder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Form.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Product.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/HeaderWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/InternetDateFormat.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/ClientProxy.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/MetadataExtension.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/EncodeRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/TunnelService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/MethodAuthorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ChallengeResponse.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/LocalVerifier.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Header.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Finder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/MethodReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/AlphabeticalComparator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Helper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Realm.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/FileRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StatusFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/ApplicationHelper.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/MethodAnnotationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/StringUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/DigesterRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/AppendableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/ZipClientHelper.java

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 */
/**
 * Constructor.
 */
/**
 * @param schemeName
 *  The scheme name.
 * @param name
 *  The unique name.
 * @param description
 *  The description.
* @param defaultPort
*     The default port.
* @param confidential
*     The confidentiality.
*/
/**
* Indicates if the protocol guarantees the confidentiality of the messages
* exchanged, for example via a SSL-secured connection.
* *
* @return True if the protocol is confidential.
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Protocol.java
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* */
/**
* Indicates if the call came over a confidential channel such as an
* SSL-secured connection.
* *
* @return True if the call came over a confidential channel.
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperRequest.java
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 */
/** Indicates if the call is confidential. */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 * 
 * @return True if the confidentiality of the call is ensured (ex: via SSL).
 */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 * 
 * @param confidential
 * True if the confidentiality of the call is ensured (ex: via SSL).
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperResponse.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/Call.java

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*/
/**
   * Sets the reference comparator based on the more friendly "Alphanum
   * Algorithm" created by David Koelle. The internal implementation used is
   * based on an optimized public domain implementation provided by Rob
   * Heittman from the Solertium Corporation.
   *
   * @see <a href="http://www.davekoelle.com/alphanum.html">The original
   * Alphanum Algorithm from David Koelle</a>
   * @see #setComparator(Comparator)
   */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Directory.java
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* */
/**
* Application service capable of running and scheduling tasks asynchronously.
* The service instance returned will not invoke the runnable task in the
* current thread.<br>
*  
* In addition to allowing pooling, this method will ensure that the threads
* executing the tasks will have the thread local variables copied from the
* calling thread. This will ensure that call to static methods like
* [@link Application#getCurrent()] still work.<br>
*  
* Also, note that this executor service will be shared among all Restlets and
* Resources that are part of your context. In general this context corresponds
* to a parent Application's context. If you want to have your own service
* instance, you can use the [@link TaskService#wrap(ScheduledExecutorService)]
* method to ensure that thread local variables are correctly set.
*  
* @author Jerome Louvel
* @author Doug Lea (docs of ExecutorService in public domain)
* @author Tim Peierls
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/TaskService.java

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/**
* Optimized public-domain implementation of a Java alphanumeric sort.
* <p>
* This implementation uses a single comparison pass over the characters in a
* CharSequence, and returns as soon as a differing character is found, unless
* the difference occurs in a series of numeric characters, in which case that
* series is followed to its end. Numeric series of equal length are compared
* numerically, that is, according to the most significant (leftmost) differing
* digit. Series of unequal length are compared by their length.
* <p>
* This implementation appears to be 2-5 times faster than alphanumeric
* comparators based based on substring analysis, with a lighter memory
* footprint.
* <p>
* This alphanumeric comparator has approximately 20%-50% the performance of the
* lexical String.compareTo() operation. Character sequences without numeric
* data are compared more quickly.
* <p>
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*
* @author Rob Heittman, <a href="http://www.solertium.com">Solertium
* Corporation</a>
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
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*/
/**
 * Implemented based on the [@link Protocol#isConfidential()] method for the
 * request's protocol returned by [@link #getProtocol()];
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Request.java
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*/
/**
 * Indicates if this service is acting in HTTP or HTTPS mode.
 * @param confidential
 * True if this service is acting in HTTP or HTTPS mode.
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/NetServerHelper.java
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 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ServerCall.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/AnnotationUtils.java
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Indicates if the message was or will be exchanged confidentially, for example via a SSL-secured connection.

@return True if the message is confidential.
@see Request#isConfidential()

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Resource.java

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*/
/**
* Resolves a name into a value. By default, the [createResolver(Map)]
* static method can adapt a Java map into a resolver. Another useful method is
* [createResolver(Request, Response)], which can expose a Restlet call
* into a compact data model, with the following variables:
*
<table>
<thead>
<tr>
<th>Model property</th>
<th>Variable name</th>
<th>Content type</th>
</tr>
</thead>
<tbody>
<tr>
<td>request.confidential</td>
<td>c</td>
<td>boolean (true</td>
</tr>
<tr>
<td>request.clientInfo.address</td>
<td>cia</td>
<td>String</td>
</tr>
<tr>
<td>request.clientInfo.upstreamAddress</td>
<td>ciua</td>
<td>String</td>
</tr>
<tr>
<td>request.clientInfo.agent</td>
<td>cig</td>
<td>String</td>
</tr>
<tr>
<td>request.challengeResponse.identifier</td>
<td>cri</td>
<td>String</td>
</tr>
<tr>
<td>request.challengeResponse.scheme</td>
<td>crs</td>
<td>String</td>
</tr>
<tr>
<td>request.date</td>
<td>d</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>request.entity.characterSet</td>
<td>ecs</td>
<td>String</td>
</tr>
<tr>
<td>response.entity.characterSet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field</td>
<td>Value</td>
<td>Type</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>request.entity.encoding</td>
<td>ee</td>
<td>String</td>
</tr>
<tr>
<td>response.entity.encoding</td>
<td>EE</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.expirationDate</td>
<td>eed</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>response.entity.expirationDate</td>
<td>EED</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>request.entity.language</td>
<td>el</td>
<td>String</td>
</tr>
<tr>
<td>response.entity.language</td>
<td>EL</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.modificationDate</td>
<td>emd</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>response.entity.modificationDate</td>
<td>EMD</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>request.entity.mediaType</td>
<td>emt</td>
<td>String</td>
</tr>
<tr>
<td>Request/Response Entity</td>
<td>Property</td>
<td>Type</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td><code>response.entity.mediaType</code></td>
<td>EMT</td>
<td>String</td>
</tr>
<tr>
<td><code>request.entity.size</code></td>
<td>es</td>
<td>Integer</td>
</tr>
<tr>
<td><code>response.entity.size</code></td>
<td>ES</td>
<td>Integer</td>
</tr>
<tr>
<td><code>request.entity.tag</code></td>
<td>et</td>
<td>String</td>
</tr>
<tr>
<td><code>response.entity.tag</code></td>
<td>ET</td>
<td>String</td>
</tr>
<tr>
<td><code>request.referrerRef</code></td>
<td>f*</td>
<td>Reference</td>
</tr>
<tr>
<td><code>request.hostRef</code></td>
<td>h*</td>
<td>Reference</td>
</tr>
<tr>
<td><code>request.method</code></td>
<td>m</td>
<td>String</td>
</tr>
<tr>
<td><code>request.rootRef</code></td>
<td>o*</td>
<td>Reference</td>
</tr>
<tr>
<td><code>request.protocol</code></td>
<td>p</td>
<td>String</td>
</tr>
</tbody>
</table>
* <td>String</td>
* </tr>
* <tr>
* <td>request.resourceRef</td>
* <td>r*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>response.redirectRef</td>
* <td>R*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>response.status</td>
* <td>S</td>
* <td>Integer</td>
* </tr>
* <tr>
* <td>response.serverInfo.address</td>
* <td>SIA</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.agent</td>
* <td>SIG</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.port</td>
* <td>SIP</td>
* <td>Integer</td>
* </tr>
* </table>
* 
* Below is the list of name sub-parts, for Reference variables, that can replace the asterix in the variable names above:
* <br>
* <br>
* <table>
* <tr>
* <th>Reference property</th>
* <th>Sub-part name</th>
* <th>Content type</th>
* </tr>
* <tr>
* <td>authority</td>
* <td>a</td>
* </tr>
<table>
<thead>
<tr>
<th>Column</th>
<th>Value</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>baseRef</td>
<td>b*</td>
<td>Reference</td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>targetRef</td>
<td>t*</td>
<td>Reference</td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>relativePart</td>
<td>e</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fragment</td>
<td>f</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hostIdentifier</td>
<td>h</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>identifier</td>
<td>i</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path</td>
<td>p</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>query</td>
<td>q</td>
<td></td>
</tr>
<tr>
<td>String</td>
<td></td>
<td></td>
</tr>
<tr>
<td>remainingPart</td>
<td>r</td>
<td></td>
</tr>
</tbody>
</table>
1.98 lldpd 1.0.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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*/

1.100 idna 2.7-1.ph3
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===
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
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            'Development Status :: 5 - Production/Stable',
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            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
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            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)
if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1161616786_1621638310.0/0/idna-2-7-1-tar-gz/idna-2.7/setup.py

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1.102 mdadm 4.1

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.106 libedit 3.1

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```
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```

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1.108 jaxb-core 2.2.11
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**1.113 pcre 8.42**

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1.116 zlib 1.2.8
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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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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.117 openssh 8.0-p1

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1.118 shadow 4.6

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1.120 six 1.11.0-3.ph3

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1.121 tdb 2007-06-22
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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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1.122 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

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1.124 guava 12.0

1.125 zlib 1.2.3

1.125.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/*
/* match.s -- Pentium-optimized version of longest_match()
* Written for zlib 1.1.2
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>
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*/

1.126 udev 3.2.5
1.126.1 Available under license:

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

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* 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 3a0982da308228d796df35f98d787c5cff2bb5bb.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.136 openssl 1.1.1j

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   END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

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along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

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

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

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
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consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The "Artistic License"

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The End

1.137 popt 1.13-16

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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1.141 unzip 6.0-19.el7

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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.

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* 
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71150.2731@compuserve.com]:
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.143 lua 5.1
1.144 libpciaccess 0.14

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1.145 esapi 2.1.0

1.146 autogen 1.0

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

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

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, hp://www.wide.ad.jp/.

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Floating point exception control

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```
MD5 message digest algorithm

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    L. Peter Deutsch
    ghost@aladdin.com

    Independent implementation of MD5 (RFC 1321).

    This code implements the MD5 Algorithm defined in RFC 1321, whose
    text is available at
    http://www.ietf.org/rfc/rfc1321.txt
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    The original and principal author of md5.h is L. Peter Deutsch
    <ghost@aladdin.com>. Other authors are noted in the change history
    that follows (in reverse chronological order):

    2002-04-13 lpd Removed support for non-ANSI compilers; removed
      references to Ghostscript; clarified derivation from RFC 1321;
      now handles byte order either statically or dynamically.
    1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
    1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
      added conditionalization for C++ compilation from Martin
      Purschke <purschke@bnl.gov>.
Asynchronous socket services

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

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

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

The `mod: `_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

XML Remote Procedure Calls
---------------------------

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1.159 tar 1.30

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[This is the first released version of the library GPL. It is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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This option is useful when you wish to copy part of the code of
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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

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

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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
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Otherwise, if the work is a derivative of the Library, you may
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to use the modified definitions.)

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

    c) Accompany it with the information you received as to the offer
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       allowed only for noncommercial distribution and only if you
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making modifications to it. For an executable work, complete source
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control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
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1.163 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.164 elfutils 0.175

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That's all there is to it!

1.166 boost 1.68.0

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(sdetlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(ags@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
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[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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1.167 python-requests 2.19.1-4.ph3
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1.168 xfsprogs 4.18.0

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1.170 pciutils 3.6.2

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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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1.172 pyasn1 0.4.4-1.ph3
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ASN.1 library for Python
------------------------

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

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ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      ),
    ),
  DefaultedNamedType(
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
```
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

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

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

.. toctree::
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Abstract Syntax Notation One (`ASN.1`_ `<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` `<https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

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

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions `<https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` `<https://developers.google.com/protocol-buffers/>`_, or `FlatBuffers` `<https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart...
far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics `<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.
Documentation
-------------

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   :maxdepth: 2

/pyasn1/contents

Use case
--------

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/example-use-case

Download & Install
------------------

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Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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-------

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Getting help
------------

Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

* `/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar.gz/pyasn1-0.4.4/docs/source/contents.rst`

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1.174 sysstat 11.7.4

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with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
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* MoreFiles

* A collection of File Manager and related routines

* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)

* with significant code contributions by Nitin Ganatra

* (Apple Macintosh Developer Technical Support Emeritus)


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1.184 net-snmp 5.8

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sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1 library (http://code.google.com/p/smallsha1/) into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2013. All modifications to the code are redistributed under the same license as the original, which is listed below.

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****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) *****
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for details.

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1.188 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.189 openssl 0.9.7d
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1.191 pam 1.3.0

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- Seth Arnold, for contributing to the documentation.
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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

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1.204 zlib 1.2.11

1.204.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.205 protobuf 3.6.1

1.206 curl 7.61.0
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1.207 openjsse 1.1.3

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1.208 openjdk 1.8.0u252
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include/GL/glxext.h
include/GL/wglext.h :

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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see { @link Opcodes}).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see { @link Type Type}).
 * @param mv
 *            the method visitor to which this adapter delegates calls. May
 *            be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

Found in path(s):
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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
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 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv            the method visitor to which this adapter delegates calls.
 * @param access        the method's access flags (see {@link Opcodes}).
 * @param name          the method's name.
 * @param desc          the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i>. Instead, they must use the
 * { @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the { <code>MethodVisitor</code>} to send the resulting inlined
 * method code to (use { <code>null</code>} for none).
 *
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see { @link Type}).
 *
 * @param signature
 * the method's signature. May be { <tt>null</tt>}.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName()}). May be
 * { <tt>null</tt>}.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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*/
/**
 * Constructs a new [ @link Textifier ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #Textifier(int) ]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
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 * @throws IllegalStateException
 *             If a subclass calls this constructor.
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/AnnotationVisitor.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/BasicValue.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodVisitor.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AnnotationNode.java
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jar/org/objectweb/asm/util/TraceClassVisitor.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMiﬁer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldInsnNode.java

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1.222 ip-address 1.0.22-2.ph3

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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
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1.225 fdisk 2.32.1

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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Navigator.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/Predicate.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/TrueFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/PositionFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/QualifiedName.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/LocalNameFunction.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultLiteralExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/XPathSyntaxException.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/Pattern.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/LocationPathPattern.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/Expr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/Step.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-sources-jar/org/jaxen/function/BooleanFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-sources-jar/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-sources-jar/jaxen/function/LangFunction.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/XPath.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/express/IterableAxis.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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

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

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

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization.
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</tr>
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<td>PSF</td>
<td>yes</td>
</tr>
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<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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1.249 ncurses 6.1

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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## 1.250 strongswan 5.7.1

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1.253 libffi 3.0.13 18.el7

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1.254 zlib 1.2.3
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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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ca-bundle.crt -- Bundle of CA Root Certificates

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
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.262 popt 1.16

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1.264 qemu 2.4.0
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 *
 *      @(#)mman.h   8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

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*
* @(#)mman.h  8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK     0x3ff7

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* 
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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# Default configuration for sparc-bsd-user

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25      /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26      /* Text file busy */
#define TARGET_EFBIG 27        /* File too large */
#define TARGET_ENOSPC 28       /* No space left on device */
#define TARGET_ESPIPE 29       /* Illegal seek */
#define TARGET_EROFS 30        /* Read-only file system */
#define TARGET_EMLINK 31       /* Too many links */
#define TARGET_EPIPE 32        /* Broken pipe */

/* math software */
#define TARGET_EDOM 33         /* Numerical argument out of domain */
#define TARGET_ERANGE 34       /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35       /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36   /* Operation now in progress */
#define TARGET_EALREADY 37      /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38     /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39  /* Destination address required */
#define TARGET_EMSGSIZE 40     /* Message too long */
#define TARGET_EPROTOTYPE 41    /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42   /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ENOPROTOOPT 43   /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45    /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46  /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47  /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48    /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50     /* Network is down */
#define TARGET_ENETUNREACH 51   /* Network is unreachable */
#define TARGET_ENETRESET 52     /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53  /* Software caused connection abort */
#define TARGET_ECONNRESET 54    /* Connection reset by peer */
#define TARGET_ENOBUFS 55       /* No buffer space available */
#define TARGET_EISCONN 56       /* Socket is already connected */
#define TARGET_ENOTCONN 57      /* Socket is not connected */
#define TARGET_ESHUTDOWN 58     /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59   /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60     /* Operation timed out */
#define TARGET_ECONNREFUSED 61  /* Connection refused */

#define TARGET_ELOOP 62        /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG  63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN     64 /* Host is down */
#define TARGET_EHOSTUNREACH  65 /* No route to host */
#define TARGET_ENOTEMPTY     66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS      68 /* Too many users */
#define TARGET_EDQUOT      69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE      70 /* Stale NFS file handle */
#define TARGET_EREMOTE     71 /* Too many levels of remote in path */
#define TARGET_EBADRPC     72 /* RPC struct is bad */
#define TARGET_EREPMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK      77 /* No locks available */
#define TARGET_ENOSYS      78 /* Function not implemented */
#define TARGET_EFTYPE      79 /* Inappropriate file type or format */
#define TARGET_EAUTH       80 /* Authentication error */
#define TARGET_ENEEDEAUTH  81 /* Need authenticator */
#define TARGET_EIPSEC      82 /* IPsec processing failure */
#define TARGET_ENOATTR     83 /* Attribute not found */
#define TARGET_EILSEQ      84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM   85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW   87 /* Conversion overflow */
#define TARGET_ECANCELED    88 /* Operation canceled */
#define TARGET_EIDRM       89 /* Identifier removed */
#define TARGET_ENOMSG      90 /* No message of desired type */
#define TARGET_ELAST       90 /* Must be equal largest errno */

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# Default configuration for i386-bsd-user

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..; done; pwd)
endif

include $(TOP)/make.rules

SUBDIRS=
ifeq ($($SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif

CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $$(MAKE) -C $$
subdir; exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $$(MAKE) -C $$
subdir $@ ; done
ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
    export TOP
endif

include $(TOP)/make.rules

ROOTDIR ?= ../..

LDLFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I . -I/include -I/x86emu \ 
    -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \ 
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
    $(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
    $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS) 
    $(AR) -rc $@ $(X86EMU_OBJS) 
    $(RANLIB) $@

clean: 
    $(RM) *.o *.i *.s libx86emu.a 

distclean: clean
/* System call numbers. */

* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp *

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NRUnmount 22
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#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
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#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
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#define TARGET_OPENBSD_NR_adjfreq 305
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/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

/*
 * Copyright (c) 1996-1999 Eduardo Horvath
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
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 *    For any direct, indirect, incidental, special, exemplary, or consequential
 *    damages (including, but not limited to, procurement of substitute goods
 *    or services; loss of use, data, or profits; or business interruption)
 *    arising in any way out of the use of this software, even if advised of the possibility of
 *    such damage.
 * *
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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Version 2, June 1991

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

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the same as in the ordinary license.

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they blur the distinction we usually make between modifying or adding to a
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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

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General Public License rather than by this special one.

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c) You must cause the whole of the work to be licensed at no
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# Default configuration for x86_64-bsd-user

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Ty Coon, President of Vice

That's all there is to it!
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
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<tr>
<th>Symbol</th>
<th>Value</th>
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<td>#define TARGET_NETBSD_NR_wait4</td>
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<td>#define TARGET_NETBSD_NR_compat_43_oCreat</td>
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<td>#define TARGET_NETBSD_NR_link</td>
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<td>#define TARGET_NETBSD_NR_unlink</td>
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<tr>
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<td>#define TARGET_NETBSD_NR_setuid</td>
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<td>#define TARGET_NETBSD_NR_ptrace</td>
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<td>#define TARGET_NETBSD_NR_recvmsg</td>
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#define TARGET_NETBSD_NR_compat_12_oreboot 55
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 *
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#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
   /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
   /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
   /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
   /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
   /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
   /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
   /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
   /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
   /* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgprp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setitimer 96
#define TARGET_FREEBSD_NR_setpriority 97
#define TARGET_FREEBSD_NR_socket 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio     166
#define TARGET_FREEBSD_NR_semsys     169
#define TARGET_FREEBSD_NR_msgsys     170
#define TARGET_FREEBSD_NR_shmsys     171
#define TARGET_FREEBSD_NR_freebsd6_pread    173
#define TARGET_FREEBSD_NR_freebsd6_pwrite   174
#define TARGET_FREEBSD_NR_setfib      175
#define TARGET_FREEBSD_NR_ntp_adjtime  176
#define TARGET_FREEBSD_NR_setgid      181
#define TARGET_FREEBSD_NR_setegid     182
#define TARGET_FREEBSD_NR_seteuid     183
#define TARGET_FREEBSD_NR_stat        188
#define TARGET_FREEBSD_NR_fstat        189
#define TARGET_FREEBSD_NR_lstat        190
#define TARGET_FREEBSD_NR_pathconf    191
#define TARGET_FREEBSD_NR_fpathconf   192
#define TARGET_FREEBSD_NR_getrlimit   194
#define TARGET_FREEBSD_NR_setrlimit   195
#define TARGET_FREEBSD_NR_getdirent    196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall    198
#define TARGET_FREEBSD_NR_freebsd6_lseek  199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___syscall    202
#define TARGET_FREEBSD_NR_mlock        203
#define TARGET_FREEBSD_NR_munlock      204
#define TARGET_FREEBSD_NR_undelete     205
#define TARGET_FREEBSD_NR_futimes      206
#define TARGET_FREEBSD_NR_getpgid      207
#define TARGET_FREEBSD_NR_poll         209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget       221
#define TARGET_FREEBSD_NR_semop        222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget       225
#define TARGET_FREEBSD_NR_msgsnd       226
#define TARGET_FREEBSD_NR_msgrcv       227
#define TARGET_FREEBSD_NR_shmat        228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmctl       230
#define TARGET_FREEBSD_NR_shmget       231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
```c
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aioread 255
#define TARGET_FREEBSD_NR_aiowrite 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aioreturn 314
#define TARGET_FREEBSD_NR_aiosuspend 315
#define TARGET_FREEBSD_NR_aiocancel 316
#define TARGET_FREEBSD_NR_aiomonitor 317
#define TARGET_FREEBSD_NR_oaioread 318
#define TARGET_FREEBSD_NR_oaiowrite 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
```

---

*Open Source Used In ASA 9.16.2 3457*
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR__getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
#define TARGET_FREEBSD_NR__mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR__mac_set_link 412
#define TARGET_FREEBSD_NR__mac_set_link 413
#define TARGET_FREEBSD_NR__mac_set_link 414
#define TARGET_FREEBSD_NR__mac_set_link 415
#define TARGET_FREEBSD_NR__mac_set_link 416
#define TARGET_FREEBSD_NR__mac_set_link 417
#define TARGET_FREEBSD_NR__mac_set_link 418
#define TARGET_FREEBSD_NR__mac_set_link 419
#define TARGET_FREEBSD_NR__mac_set_link 420
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#define TARGET_FREEBSD_NR__mac_set_link 422
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#define TARGET_FREEBSD_NR__mac_set_link 424
#define TARGET_FREEBSD_NR__mac_set_link 425
#define TARGET_FREEBSD_NR__mac_set_link 426
#define TARGET_FREEBSD_NR__mac_set_link 427
#define TARGET_FREEBSD_NR__mac_set_link 428
#define TARGET_FREEBSD_NR__mac_set_link 429
#define TARGET_FREEBSD_NR__mac_set_link 430
#define TARGET_FREEBSD_NR__mac_set_link 431
#define TARGET_FREEBSD_NR__mac_set_link 432
#define TARGET_FREEBSD_NR__mac_set_link 433
#define TARGET_FREEBSD_NR__mac_set_link 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach  436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait  441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf  444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid   447
#define TARGET_FREEBSD_NR_setauid   448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit  450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op   454
#define TARGET_FREEBSD_NR_thr_new   455
#define TARGET_FREEBSD_NR_sigqueue  456
#define TARGET_FREEBSD_NR_kmq_open  457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive  459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify   461
#define TARGET_FREEBSD_NR_kmq_unlink  462
#define TARGET_FREEBSD_NR_abort2    463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite    476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open  482
#define TARGET_FREEBSD_NR_shm_unlink   483
#define TARGET_FREEBSD_NR_cpuset  484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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Version 2.1, February 1999

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

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

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

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

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<signature of Ty Coon>, 1 April 1990
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Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
*not* fall under the heading of "derived work".
-- Wolfgang Denk

--- debug.c
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c    Sep 2007 10:01:21 -0000 1.1
+++ debug.c    Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@

void X86EMU_trace_regs (void)
{
  if (DEBUG_TRACE())
-    x86emu_dump_regs();
+    if ((M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR))
+        x86emu_dump_xregs();
+    else {
+        x86emu_dump_regs();
+    }
}

if (DEBUG_DECODE() & & ! DEBUG_DECODE_NOPRINT())
  printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@

for (i=0; i< M.x86.enc_pos; i++)
  sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
-  printk("%-20s",buf1);
+  printk("%-20s",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c    Sep 2007 10:01:21 -0000 1.1
+++ ops2.c    Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+
break;
+
case 0xca:
+
DECODE_PRINTF("EDX\n");
+
M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+
break;
+
case 0xcb:
+
DECODE_PRINTF("EBX\n");
+
M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+
break;
+
case 0xcc:

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+ DECLARE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECLARE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECLARE_PRINTF("ESI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ case 0xcf:
+ DECLARE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECLARE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,
+/*  0xd0 */ x86emuOp2_illegal_op,
+/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -00001.1
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
    }  
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }  
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        } else {
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                - M.x86.R_CX -= 1;
                + M.x86.R_ECX -= 1;
            else
                + M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            + if (M.x86.intr & INTR_HALTED)
                break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
            + M.x86.R_ECX -= 1;
            else
            + M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        + if (M.x86.intr & INTR_HALTED)
            break;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
    } else {
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
    }
    while (count--) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            M.x86.R_CX -= 1;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_CX -= 1;
        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            M.x86.R_CX -= 1;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
        count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} 
while (count--) {
    @@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    + if (M.x86.intr & INTR_HALTED)
    +    break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @@ -2894,26 +2936,36 @@
        inc = 1;
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                +    M.x86.R_ECX -= 1;
                + else
                +    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF) == 0)
                    break;
                + if (M.x86.intr & INTR_HALTED)
                +    break;
            } 
            M.x86.mode &= ~SYSMODE_PREFIX_REPE;
        } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
            /* REPNE */
            /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + while (M.x86.R_CX != 0) {
                + /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {  
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
  if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX -= 1;
  else
    M.x86.R_CX -= 1;
  if (M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
      break;  /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
      break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REP;
} else {
@@ -2951,8 +3003,8 @@
  TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
      }
    }
  } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (ACCESS_FLAG(F_ZF) == 0)
        break;
    }
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
-  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
+  /* move them until (E)CX is ZERO. */
+  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    } else {
        M.x86.R_CX -= 1;
    }
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
else {
    DECODE_PRINTF("RET\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETFn");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+       if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+           M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+       if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+           M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5: /* jmp far ptr ... */
        destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c,v 7 Sep 2007 10:01:21 -0000
+++ prim_ops.c,v 16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
    imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{ #ifdef __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

  *res_lo = (u32)res;
  *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef __HAS_LONG Long__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* in until (E)CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
-    while (count--) {
-        single_in(size);
-        M.x86.R_DI += inc;
-    }
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_out(size);
    M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
--- sys.c 7 Sep 2007 10:01:21 +0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 +0000 1.2
@@ -45,11 +45,7 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-  -#include "io.h"
-  #ifndef IN_MODULE
-    #include "xf86_ansic.h"
-  ifdef IN_MODULE
-    #include "xf86_ansic.h"
-    @ @ -220,7 +215,7 @@
-    { DB(if (DEBUG_IO_TRACE())
-      printk("inb %#04x \n", addr);
-      return inb(addr);
-      +return 0;
-    }

/*********************************************************/
@@ -235,7 +230,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inw %#04x \n", addr);
      -return inw(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
@@ -250,7 +245,7 @@
 { DB(if (DEBUG_IO_TRACE())
      printk("inl %#04x \n", addr);
      -return inl(addr);
+      return 0;
    }

/*********************************************************/
THE END
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H

---
Open Source Used In ASA 9.16.2 3490
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+  #define DEBUG_TRACEJMP()       0
+  #define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
                x86emu_dump_regs();                                    
                if (DEBUG_TRACECALL())                                      
                         printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);  
+# define RETURN_TRACE(n,u,v)                                    
                if (DEBUG_TRACECALLREGS())
                x86emu_dump_regs();
                if (DEBUG_TRACECALL())                                      
                -printk("%04x:%04x: %s\n",u,v,n);
                +printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
                +# define JMP_TRACE(u,v,w,x,s)
                +  if (DEBUG_TRACEJMPREGS())
                +    x86emu_dump_regs();
                +  if (DEBUG_TRACEJMP())
                +    printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
                #else
                # define CALL_TRACE(u,v,w,x,s)
                -# define RETURN_TRACE(n,u,v)
                +# define RETURN_TRACE(u,v,w,x,s)
                +# define JMP_TRACE(u,v,w,x,s)
                #endif

#ifdef DEBUG
Index: include/x86emu/regs.h

Open Source Used In ASA 9.16.2 3491
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRAN_INTR 0x20000000
#define SYSMODE_HALTSE 0x40000000
@@ -250,7 +253,8 @@
  SYSMODE_SEGOVR_GS | \n  SYSMODE_SEGOVR_SS | \n  SYSMODE_PREFIX_DATA | \n- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR | \n+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNC 0x2
@@ -47,6 +47,7 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000
@@ -47,6 +47,7 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
#
# *****************************************************************************
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# *
# * Contributors:
# * IBM Corporation - initial implementation
# # *****************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
  echo "patch executable not found!"
  exit -1
fi
if [ ! -r $DIFF_FILE ]; then
  echo "diff file $DIFF_FILE not found!"
  exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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

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

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

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1.271 libwww 5.4.2

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[This is the first released version of the library GPL. It is
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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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# 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. 
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1.278 tcp-wrappers 7.6

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1.289 giflib 1.0

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1.291 lua 5.0.2

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1.292 busybox 1.29.2

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1.293 boost 1.53.0

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1.294 LuaSocket 2.0

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1.295 e2fsprogs 1.44.3

1.295.1 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 <tys0@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

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

all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(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)

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:

http://sourceforge.net/projects/e2fsprogs

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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
-
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repository from the development branch, please contact me
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Theodore Ts'o
23-June-2007

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

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

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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1.297 xerces-j 2.8.0
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1.298 kerberos 1.16.1

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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-

/* tests/shlib/t_loader.c */

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- lib/gss_mechs/mech_krb5/et/kdb5_err.c
- lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
- lib/gss_mechs/mech_spnego/mech/spnego_mech.c
- lib/krb5/kadm5/kadm_host_srv_names.c
- lib/krb5/kdb/kdb_convert.c
- lib/krb5/kdb/kdb_hdr.h
- lib/krb5/kdb/kdb_log.c
- lib/krb5/kdb/kdb_log.h
- lib/libgss/g_accept_sec_context.c
- lib/libgss/g_acquire_cred.c
- lib/libgss/g_canon_name.c
- lib/libgss/g_compare_name.c
- lib/libgss/g_context_time.c
- lib/libgss/g_delete_sec_context.c
- lib/libgss/g_dsp_name.c
- lib/libgss/g_dsp_status.c
- lib/libgss/g_dup_name.c
- lib/libgss/g_exp_sec_context.c
- lib/libgss/g_export_name.c
- lib/libgss/g_glue.c
- lib/libgss/g_imp_name.c
- lib/libgss/g_imp_sec_context.c
- lib/libgss/g_init_sec_context.c
- lib/libgss/g_initialize.c
- lib/libgss/g_inquire_context.c
- lib/libgss/g_inquire_cred.c
- lib/libgss/g_inquire_names.c
- lib/libgss/g_process_context.c
- lib/libgss/g_rel_buffer.c
- lib/libgss/g_rel_cred.c
- lib/libgss/g_rel_cred.c
- lib/libgss/g_rel_name.c
- lib/libgss/g_rel_oid_set.c
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- lib/libgss/g_sign.c
- lib/libgss/g_store_cred.c
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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
d行政/server/ipropd_svc.c
dlib/kdb/iprop.x
dlib/kdb/kdb_convert.c
dlib/kdb/kdb_log.c
dlib/kdb/kdb_log.h
dlib/krb5/error_tables/kdb5_err.et
dkprop/kpropd_rpc.c
dkprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
`src/lib/gssapi`\`, including the following files:

.. parsed-literal::

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

.. parsed-literal::

   include/irop hdr.h
   kadmin/server/iropd_svc.c
   lib/kdb/irop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kropd_rpc.c
   kprop/kroplog.c

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

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/**' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

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

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

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
f.close()
check_file(lines, fname)

.. _mitK5license:

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

.. toctree::
   :hidden:

   copyright.rst

.. include:: notice.rst

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/*

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1.309 rpcbind 0.2.4

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* /opt/ws_local/PERMITS_SQL/1045960566_1592319068.67/pld-linux-rpcbind-auto-th-rpcbind-0-2-4-1-0-g743aa28-tar-gz/pld-linux-rpcbind-743aa28/rpcbind.spec

1.310 libvirt 4.7.0

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

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

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

    Author: Julio Merino <jmmv@NetBSD.org>

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

    Author: Julio Merino <jmmv84@gmail.com>

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

    Author: Julio Merino <jmmv84@gmail.com>

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

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
  <xsl:text&gt; </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright"/>

<xsl:variable name="isc.copyright.text">
  <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
    <xsl:text>Copyright (C) </xsl:text>
    <xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="year"/>
    </xsl:call-template>
    <xsl:text> </xsl:text>
    <xsl:value-of select="holder"/>
    <xsl:value-of select="$isc.copyright.breakline"/>
    <xsl:text>&#10;</xsl:text>
  </xsl:for-each>
</xsl:variable>

<xsl:variable name="isc.copyright"/>

<xsl:variable name="isc.copyright.text">
  <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
    <xsl:text>Copyright (C) </xsl:text>
    <xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="year"/>
    </xsl:call-template>
    <xsl:text> </xsl:text>
    <xsl:value-of select="holder"/>
    <xsl:value-of select="$isc.copyright.breakline"/>
    <xsl:text>&#10;</xsl:text>
  </xsl:for-each>
</xsl:variable>
<xsl:call-template>
<xsl:variable>
<xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

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